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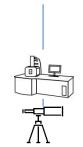
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## A11.1123

Student Biological Microscope, Binocular Head, Dual LED Light

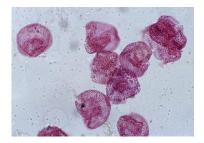


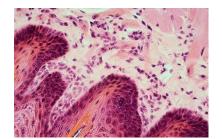


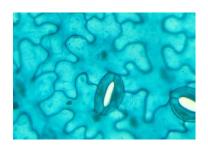


Total 40x~400x Magnification Dual Up & Bottom LED Light Source Cordless Powered by AA 1.5V Battery 3 pcs Plain Stage 90x90mm With Clip & Disc Diaphragm Compact All in One Design for Easy Moving

	A11.1123 Economical Binocular Biological Microscope
Head	Slinding Binocular Head, 45°Inclined, 360°Rotatable
Eyepiece	WF10x 2 pcs, 1pc With Pointer
Nosepiece	Quadruple Revolving Nosepiece
Objective	Achromatic 4x,10x,40x(Spring),100x(Spring,Oil)
Working Stage	Double Layers Mechanical Stage 100x90mm, Moving Range 30x60mm
Condenser	Abbe Condenser N.A1.25 With Iris Diaphragm
Focusing	Coaxial Coarse And Fine Focusing Knobs
Illumination	Dual LED Light, Up/Bottom Illumination, Brightness Adjustable
	By External AC/DC Adaptor
Power Supply	By 3xAA Rechargeable Batteries
	(If Shipped By Air, Battery Will NOT Be Included)







#### A11.1124 **Student Biological Microscope, Cordless Dual Light, Plastic Body**

#### OPTO-EDU



### LIGHT SOURCE

Dual light source, with top and bottom LED light. Powered by 3 AA batteries for cordless usage.







Economical Binocular & Dual LED Biological Microscope Binocular Head 45° Inclined, 360° Rotatable Both Eyetube Diopter Adjustable Eyepiece WF10x/18mm, Achromatic Objective 4x,10x,40x,100x Spring Double Layers Mechanical Stage 100x90mm, Moving Range 30x60mm Dual LED Light, Up/Bottom Illumination, Brightness Adjustable

A1	1.1124 Student Microscope, Cordless Dual Light, Plastic Body
Head	Monocular Head, 360° Rotatable
Eyepiece	WF10x/16mm
Objective	Achromatic 4x,10x,40x(Spring)
Nosepiece	Triple Revolving Nosepiece
Working Stage	Plan Stage With Clips, 90x90mm
Condenser	Single Lens Condenser, With 6 Holes Disc Diaphragm
Focusing	Coarse Focusing Knob
Illumination	Dual Light Top & Bottom LED Light
Power	Cordless Powered By AA 1.5V Battery 3 pcs
Note	Order Shipped By Air Will NOT Include Batteries



WIFI

Cordless Battery

Cordless Rechargeable

100~240V Wide Powe

Auto Power Off

5 Years Warranty

3 Years Warranty

#### A11.1133 Student Biological Microscope

#### OPTO-EDU







1025727

A11.1133-A

A11.1133-B

Total Magnification 40x-1000x, Up To 40x-2500x With Optional Eyepieces Monocular, Binocular, Trinocular Heads Available For Photo Video Capture Achromatic Objective 4x, 10x, 40x, 100x On 4 Holes Nosepiece Single Layer Stage 100x90mm, With Vernial Moving Scale Light Source 6V20W Halogen Lamp, or LED 1W Optional

#### **Product Specification**

Items	A11.1133 Biological Microscope Specification	Α	В	С	D
	Monocular Head, 30° Inclined, 360° Rotatable	•	•		
Head	Slinding Binocular Head, 45° Inclined, 360° Rotatable			•	
	Seidentopf Binocular Head, 30° Inclined, 360° Rotatable				•
Eyepiece	WF10X With Pointer	•	•	•	•
	Achromatic 4X	•	•	•	•
Objective	Achromatic 10X	•	•	•	•
Objective	Achromatic 40X, Spring	•	•	• • •	•
	Achromatic 100X, Spring/Oil		•	•	•
Nacariaaa	Triple Revolving Nosepiece	•	• • •		
Nosepiece	Quadruple Revolving Nosepiece			•	
	Plain Stage With Clips, Size 100x90mm	•			
Stage	Attachable Mechanical Stage, Size 100x90mm		•	•	
	Double Layer Mechanical Stage ,Size 100x90mm			•	
Condonoor	Single Lens Condenser With Disc Diaphragm	•			
Condenser	N.A.1.25 Condensor With Iris Diaphragm		•	•	•
Focusing	Coaxial Coarse And Fine Focusing Knobs	•	•	•	•
Light Course	LED Lampe With Rechargeable Battery	•	•	•	•
Light Source	Power Supply Adapter	•	•	•	•

#### A11.1143 **Student Biological Microscope,** Monocular, Dual LED Light

#### OPTO-EDU



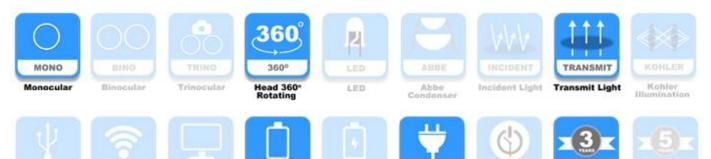
### LIGHT SOURCE

Dual light source, with upper LED, and bottom LED brightness adjustable. Powered by external main adapter, or 3 AA batteries for cordless usage.



Economical Monocular & Dual LED Biological Microscope Monocular Head 45° Inclined, 360° Rotatable Eyepiece WF10x/18mm, Achromatic Objective 4x,10x,40x Spring Plan Stage With Clips 95x95mm Dual LED Light, Up/Bottom Illumination, Brightness Adjustable

	A11.1143 Student Microscope		
Head	Monocular Head, 45°Inclined, 360°Rotatable		
Eyepiece	WF10x		
Nosepiece	Triple Revolving Nosepiece		
Objective	Achromatic 4x,10x,40x(Spring)		
Working Stage	Plan Stage With Clips, 95x95mm		
Condensor	Single Lens Condenser, With Disc Diaphragm		
Focusing	Coaxial Coarse And Fine Focusing Knobs		
Light Source	Dual LED Light, Up/Bottom Illumination, Brightness Adjustable		
Power Supply	By External AC/DC Adaptor, Or By 3xAA Batteries (Not Included)		



WIFI

Cordless Battery

CORDLESS BATTERY

Cordless Rechargeable

100~240V Wide Powe

WIDE POWER

Auto Power Off

3 Years Warranty

**3 YEARS** 

5 Years Warranty

### A11.1303 Biological Microscope





Monocular, S Teaching, V Teaching, Binocular & Trinocular Head Optional WF10x/18mm Wide Field Eyepiece Backward Quarduple Nosepiece Achromatic Objective 4x,10x,40x,100x Double Layer Mechanical Stage 125x130/60x30mm

	A11.1303 Biological Microscope	Μ	S	V	В	
	Monocular Head, 45° Inclined, 360° Rotatable	•				
	Seidentopf Binocular Head, 45° Inclined, 360° Rotatable				•	
Head	Seidentopf Trinocular Head, 45° Inclined, 360° Rotatable					T
	V Dual Viewing Head, 30°+90° Inclined, 360° Rotatable			•		Ī
	S Dual Viewing Head, 45°+45° Inclined, 360° Rotatable		•			
Eyepiece	WF10x/18mm	•	•	•	٠	
	Achromatic 4x	•	•	•	٠	
Objective	Achromatic 10x	•	•	•	٠	
Objective	Achromatic 40x(S)	•	•	•	٠	
	Achromatic 100x(S,Oil)	•	٠	•	٠	
Nosepiece	Quadruple Revolving Nosepiece	•	٠	•	٠	
Stage	Double Layers Mechanical Stage 125x130mm/ 60x30mm	•	•	•	٠	
Condenser	Abbe Condenser Ν.Α.1.25, Φ2-Φ30mm Iris Diaphragm, With Φ32 Filter Holder	•	•	•	•	
Focusing	Coaxial Coarse & Fine Focusing Adjustable, Focusing Range 20mm	•	•	•	•	
Light Source	Halogen 6V/20W, Brightness Adjustable	•	•	•	•	
Adaptar	Eyepiece Adapter					
Adapter	1x C-mount					
	Optional Accessory					
Light Source	LED 1W, Brightness Adjustable					

#### A11.1313 Biological Microscope

OPTO-EDU



Total Magnification 40x-1000x, Up To 40x-2500x With Optional Eyepieces Monocular, Dual View, Binocular, Trinocular Heads Available For Photo Video Capture Achromatic Objective 4x, 10x, 40x, 100x On 4 Holes Nosepiece Double Layer Mechanical Stage 125x130mm, Moving Range 30x60mm Light Source 6V20W Halogen Lamp, or LED 1W Optional

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OPTO-EDI

В

	A11.1313 Biological Microscope	М	s	v	В	т
	Monocular Head, 45° Inclined, 360° Rotatable	•				
	Dual Observation Head, 45°+45° Inclined		•			
	Dual Observation Head, 30°+90° Inclined			•		
Head	Seidentopf Binocular Head, 30° Inclined, 360° Rotatable, Interpupillary Distance 55- 75mm				•	
	Seidentopf Trinocular Head, 30° Inclined, 360° Rotatable, Interpupillary Distance 55- 75mm					•
Eyepiece	WF10x/18mm	•	•	•	•	•
	Achromatic 4x	•	•	•	•	•
Objective	Achromatic 10x	•	•	•	•	•
Objective	Achromatic 40x(S)	•	•	•	•	•
	Achromatic 100x(S,Oil)	•	•	•	•	•
Nosepiece	Quadruple Revolving Nosepiece	•	•	•	•	•
Stage	Double Layers Mechanical Stage 125x130mm/60x30mm	•	•	•	•	•
Condenser	Abbe Condenser Ν.Α.1.25, Φ2-Φ30mm Iris Diaphragm, With Filter Holder & Blue Filter Φ32	•	•	•	•	•
Focusing	Coarse & Fine Focusing Knob, Range 20mm, Scale 0.01mm	•	•	•	•	•
Light Source	Halogen Lamp 6V/20W	•	•	•	•	•
Optional Accessories						
ight Source LED Lamp 1W						
	WF15x	A5	1.13	303	-15	
Evonioco	WF16x	A51.1303-1				
Eyepiece	WF20x	A51.1303-20				
	WF25x	A5	1.13	303	-25	

#### A11.1324 Student Biological Microscope

#### OPTO-EDU

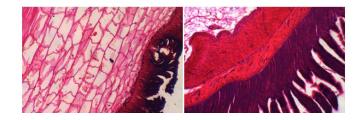


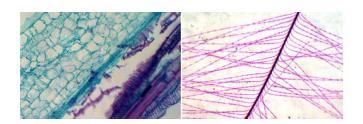




Monoular Head Inclined 45° Rotatable 360° Eyepiece WF10x/18mm, Achromatic Objective 4x,10x,40x Spring Double Layers Mechanical Stage With Iris Diaphragm Condenser Coaxial Coarse & Fine Focusing Knob, LED Light Powered By External AC/DC Adaptor,Or By 3xAA Batteries

	A11.1324 Student Microscope		
Head	Monocular Head, 45° Inclined, 360° Rotatable		
Eyepiece	WF10x		
Objective	Achromatic 4x,10x,40x(Spring)		
Nosepiece	Triple Revolving Nosepiece		
Stage	Double Layers Mechanical Stage 90x90mm, Moving Range 30x60mm		
Condenser	Abbe Condenser N.A.0.65 With Iris Diaphragm		
Focusing	Coaxial Coarse & Fine Focusing Adjustment, With Safty Stop		
Light Source	LED Light, Brightness Adjustable		
Power Supply	By External AC/DC Adaptor, Or By 3xAA Batteries(Not Included)		
Size	16x11x31cm, Net Weight 1.9Kg		





#### A11.1321 Student Biological Microscope







Classical & Popular Student Microscope Model In Amazon Market Monocular Head 45° Inclined, 360° Rotatable Eyepiece WF10x/18mm, Achromatic Objective 4x,10x,40x Spring Plan Stage With Clips 90x90mm LED Light For Bottom Transmit Illumination

	A11.1321 Student Biological Microscope			
Head	Monocular Head, 360º Rotatable			
Eyepiece	WF10x			
Objective	Achromatic 4x,10x,40x			
Nosepiece	Backward Triple Revolving Nosepiece			
Stage	Clip Stage With Disc Diaphragm			
Focusing	Coaxial Coarse & Fine Focusing Knob			
Illumination	LED Light			
Power Supply	External Transformer, 3xAA Battery Available			

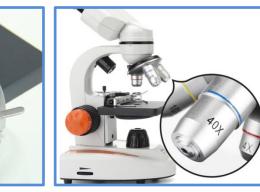




Achromatic Objectives 4x, 10x, 40x

#### A11.1322 Student Biological Microscope, Binocular, Dual LED Light







Classical & Popular Student Microscope Model In Amazon Market Binocular Head 45° Inclined, 360° Rotatable Eyepiece WF10x/18mm, Achromatic Objective 4x,10x,40x Spring Plan Stage With Vernial Scale, 90x90mm, Moving Range 30x50mm Dual LED For Up/Bottom Illumination

	A11.1322 Student Biological Microscope				
Head Binocular Head, 360° Rotatable					
Eyepiece	WF10x				
Objective	Achromatic 4x,10x,40x(Spring)				
Nosepiece	Backward Triple Revolving Nosepiece				
Working Stage	Plan Stage With Vernial Scale, 90x90mm, Moving Range 30x50mm				
Condenser	Single Lens Condenser, With 6 Holes Disc Diaphragm				
Focusing	Coaxial Coarse & Fine Focusing Knob, With Safty Stop				
Illumination	Dual LED Light, Up/Bottom Illumination, Brightness Adjustable				
Power Supply	By External AC/DC Adaptor, Or By 3xAA Batteries (Not Included)				









# A11.1326

**Student Biological Microscope, Round Stage** 





PTO-EDU

Full Metal High Rigidity Body Total Magnification 40x~400x Fast Moving Round Rotatable Working Stage Dia. 90mm Single Lens Condenser, With 6-Holes Disc Diaphragm Transmit & Reflect LED Light Source, Both Brightness Adjustable Cordless 2xAA Batteries And External Adapter AC100~240V

#### **Products Specification**

	A11.1326 Student Microscope Specification			
Head	Head Monocular Head, 45° Incline,360° Rotatable			
Eyepiece	WF10x			
Objective	Achromatic 4x, 10x, 40x			
Nosepiece	Triple Revolving Nosepiece			
Focusing	Coarse Focusing Knob, Focusing Range 13mm			
Working Stage	Fast Moving Round Rotatable Working Stage Dia. 90mm			
Condenser	Single Lens Condenser, With 6-Holes Disc Diaphragm			
Light Source	Transmit & Reflect LED Light Source, Both Brightness Adjustable			
Power	Cordless 2xAA Batteries And External Adapter AC100~240V			
Size	29x16x16cm			

### A12.1303 Laboratory Microscope







Total Magnification 40x-1000x, Up To 40x-2500x With Optional Eyepieces Monocular, Dual View, Binocular, Trinocular Heads Available For Photo Video Capture Achromatic Objective 4x, 10x, 40x, 100x On 4 Holes Nosepiece Double Layer Mechanical Stage 125x125mm, Moving Range 40x50mm Transmit Light Source LED Brightness Adjustable

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A12.1303 Biological Microscope				S	В	т
	Monocular Head, 30° Inclined	0				
	Seidentopf Binocular Head, 30° Inclined, Interpupillary Distance 55~75mm				0	
Head	Seidentopf Trinocular Head, 30° Inclined, Interpupillary Distance 50~75mm, With Digital Eyepiece Adapter, Height Adjustable					о
	Dual Observation Head, 30° Inclined / Vertical		0			
	Dual Observation Head, 45° Inclined			0		
Eyepiece	WF10x					
Nosepiece	Backward, Quadruple Nosepiece					
Objective	45mm DIN Achromatic 4x,10x,40x(S),100x(O,S)					
Working Stage	e Double Layer Mechanical Stage, Size 125*125mm, Moving Range X-Y 50*40mm					
Condenser	Abbe N.A.1.25, With Dia.2-Dia.30mm Iris Diaphragm,					
Focusing	Low Position Designed, Coaxial Coarse & Fine Focusing, Coarse Focusing Range 25mm, Fine Focusing Scale 0.002mm, With Tension Adjustment, With Upper Safety Stop					
Light Source	LED Lamp					
G.W.	10KG					
Package	2 Sets/Carton					

#### A11.1513 Toy Biological Microscope Gift Set



A11.1513 Toy Microscope Gift Set						
Head	Monocular, Inclination Adjustable					
Magnification	100x,400x,900x					
Eyepiece	10x					
Objective	10x,40x,90x					
Nosepiece	Triple					
Working Stage	Clip Stage 65x72mm					
Condenser	Disc Diaphragm, With 8 Holes, With Blue, Green, Red, Light Green Filters					
Power	LED Light, Cordless Powered By Batteries AA x 2pcs, With Mirror					
Product Size	14x9x23cm,N.W.0.6Kgs					
A11.1513	Packing & Accessories					
	Plastic Suitcase Packing Box Size 35x42x12cm Shrimp Hatchery Brine Shrimp Eggs					
	Specimen Slicer Petri Dish					
	Plastic Tweezers					
	Plastic Scalpel					
	Plastic Spatula					
	Needle					
Experimentation Appliance	Plastic Stirring Rod					
Kit	Graduated Cylinder					
	Eosin					
	Gum Media (bottle)					
	Sea Salt					
	Prepared Slides*5					
	Blank Slides*7					
	Slide Covers*7					
	Statistical Slide Covers*7					
	Slide Labels*7					
	Collecting Vials*2					
	Spare LED Bulb					







Beginner compound microscope provides high magnification for educational applications Monocular viewing head with led and mirror illumination and built-in color filter wheel Forward-facing rotating turret provides 100X, 400X, 900X magnifications Coarse focus has a rack-and-pinion focus mechanism on a durable and stain-resistant white metals frame Comes with full set accessory kits and hard-sided plastic abs case

# A11.1509

**Digital Student Biological Microscope Gift Se** 

#### OPTO-EDU



A11.1509 Digital Student Biological Microscope Gift Set					
Cata. No.	A11.1509-M	A11.1509			
Magnification	40x-640x 40x-1280x				
Head	Monocular Head, 45° Inclined, 360° Rotatable				
Eyepiece	WF10x,16x	WF10x,16x, Barlow Lens 2x			
Nosepiece	Outward Tri	ple Nosepiece			
Objectives	185 Achroma	tic 4x,10x,40x(S)			
Focusing	Coarse Focusing Knob	, Focusing Range: 20mm			
Stage	90*90mm	n, Clip Stage			
Condenser	Single Lens Condenser, 6 Holes D	Disc Diaphragm, With Built-in 5 Filters			
Light Source	Up & Bottom LED Light,	Both Brightness Adjustable			
Power		ies NOT Included), Adapter Included 0V Optional)			
Package	Foam + Carton	Plastic Suitcase + Carton			
		Plastic Microtom 1 pc			
		Hatching Box 1 pc			
		Staw Tube 1 pc			
		Tweezer 1pc			
Accessory Kit		Sea Salt 1 Bottle			
Accessory Mi		Yeast 1 Bottle			
		Worm Eggs 1 Bottle			
		Glue 1 Bottle			
		Blank Slides 5 pcs, Prepared Slides 5			
		pcs, In 1 Box			
Digital Eyepiece Camera		100K USB2.0			

# A11.1510

**Digital Student Biological Microscope Gift Se** 





A11.1510 Digital Student Biological Microscope Gift Set					
Cata. No.	A11.1510-M	A11.1510			
Magnification	40x-640x	40x-640x 40x-1280x			
Head	Monocular Head, 45° Inclined, 360° Rotatable				
Eyepiece	WF10x,16x	WF10x,16x, Barlow Lens 2x			
Nosepiece	Outward Tr	iple Nosepiece			
Objectives	185 Achroma	tic 4x,10x,40x(S)			
Focusing	Coarse Focusing Knob	o, Focusing Range: 20mm			
Stage	90*90mm	n, Clip Stage			
Condenser	Single Lens Condenser, 6 Holes E	Disc Diaphragm, With Built-in 5 Filters			
Light Source	Up LED Light Pen, Bottom L	ED Light Brightness Adjustable			
Power	Cordless Batteries (3xAAA Batteries NOT Included), Adapter Included (110V/220V Optional)				
Package	Foam + Carton	Plastic Suitcase + Carton			
		Plastic Microtom 1 pc			
		Hatching Box 1 pc			
		Staw Tube 1 pc			
		Tweezer 1pc			
Accessory Kit		Sea Salt 1 Bottle			
Accessory Kit		Yeast 1 Bottle			
		Worm Eggs 1 Bottle			
		Glue 1 Bottle			
		Blank Slides 5 pcs, Prepared Slides 5			
		pcs, In 1 Box			
Digital Eyepiece Camera		100K USB2.0			

#### A11.1511 Digital Student Biological Microscope Gift Se

OPTO-EDU



A11.1511 Digital Student Biological Microscope Gift Set					
Cata. No.	A11.1511-M	A11.1511			
Magnification	40x-640x	x 40x-1280x			
Head	Monocular Head, 45° Inclined, 360° Rotatable				
Eyepiece	WF10x,16x	WF10x,16x, Barlow Lens 2x			
Nosepiece	Outward Tr	iple Nosepiece			
Objectives	185 Achroma	tic 4x,10x,40x(S)			
Focusing	Coarse Focusing Knob	o, Focusing Range: 20mm			
Stage	90*90mm	n, Clip Stage			
Condenser	Single Lens Condenser, 6 Holes D	Disc Diaphragm, With Built-in 5 Filters			
Light Source	Up Light Pen, Bottom LED	D Light Brightness Adjustable			
Power	Cordless Batteries (3xAAA Batteries NOT Included), Adapter Included (110V/220V Optional)				
Package	Foam + Carton	Plastic Suitcase + Carton			
		Plastic Microtom 1 pc			
		Hatching Box 1 pc			
		Staw Tube 1 pc			
		Tweezer 1pc			
Accessory Kit		Sea Salt 1 Bottle			
Accessory Rit		Yeast 1 Bottle			
		Worm Eggs 1 Bottle			
		Glue 1 Bottle			
		Blank Slides 5 pcs, Prepared Slides 5			
		pcs, In 1 Box			
Digital Eyepiece Camera		100K USB2.0			

#### A11.1512 Digital Student Biological Microscope Gift Se

OPTO-EDU



A11.1512, A11.1545 Digital Student Biological Microscope Gift Set								
Cata. No.	A11.1512-M	A11.1512	A11.1512-100k	A11.1512-300K	<u>A11.1545</u>	<u>A11.1545-E</u>		
Magnification	40x-640x	40x-1280x	40x-1280x	40x-1280x	40x-640x 40x-640x			
Head		Monocular Head, 45° Inclined, 360° Rotatable						
Eyepiece	WF10x,16x	WF1	0x,16x, Barlow L	ens 2x	WF10x,16x	WF10x,16x		
Nosepiece			Outward Trip	ole Nosepiece				
Objectives			185 Achromati	ic 4x,10x,40x(S)				
Focusing		Coarse	e Focusing Knob,	, Focusing Range	e: 20mm			
Stage		90*90mm	n, Clip Stage			ial Scale Stage, ge 30x60mm		
Condenser	Sing	gle Lens Cond	enser, 6 Holes D	isc Diaphragm, V	Vith Built-in 5 Fil	ters		
Light Source		Up & Bo	ttom LED Light, E	Both Brightness A	Adjustable			
Power	Cordless Batte	eries (3xAAA B	atteries NOT Inc	luded), Adapter I	ncluded (110V/2	20V Optional)		
Package	Foam + Carton		Plas	stic Suitcase + Ca	arton			
			PI	astic Microtom 1	рс			
				Hatching Box 1 p	С			
		Staw Tube 1 pc						
		Tweezer 1pc						
Accessory Kit				Sea Salt 1 Bottle	)			
				Yeast 1 Bottle				
		Worm Eggs 1 Bottle						
		Glue 1 Bottle						
		Blank Slides 5 pcs, Prepared Slides 5 pcs, In 1 Box						
Digital			100K USB2.0	300K USB2.0		300K USB2.0		
Eyepiece Camera		Upgrade To A33.1501 3.5" LCD Digital Biological Microscope						

#### A11.1526 Student Biological & Stereo Microscope

#### OPTO-EDU

A



Compact Biological + Stereo All-in-One Design 20x~100x Zoom Magnification Round Stage Dia.82mm With Clips And Disc Diaphragm Upper + Bottom LED Light Brightness Adjustable Cordless Powered By 3xAAA Batteries

	A11.1526 Student Biological & Stereo Microscope				
Magnification	20x~100x				
Head Monocular, Inclined 45°, Rotatable 360°					
Eyepiece WF10x/18mm					
Objective Zoom 2x~10x Lens					
Working Stage Round Stage Dia.82mm, With Clips					
Condenser Disc Diaphragm					
Focusing Coarse Focusing Knob, Focusing Range 25mm					
Light Source Upper 10 LEDs Ring Light, Bottom LED Light Brightness Adjustable					
Dower	Cordless, Powered By 3xAAA Batteries				
Power	(NOT Included For Air Shipment)				







OPTO-EDU

Zoom 2-10x Objective, Upper 10 LEDs Light

#### A11.1529 Student Biological Microscope, Cordless Dual Light, Plastic Body

#### OPTO-EDU



40x~400x Magnification Dual Up & Bottom LED Light Source Cordless Powered by AA 1.5V Battery 3 pcs Plain Stage 90x90mm With Clip & Disc Diaphragm Compact All in One Design for Easy Moving

	A11.1529 Student Biological Microscope, Dual Light, Plastic Body				
Head	Monocular, 45° Inclined , 360° Rotatable				
Eyepiece	WF10x/16mm				
Objective	Achromatic 4x,10x, 40x(S)				
Nosepiece	Outward Triple				
Focusing	Coarse Focusing Knob, Focusing Range 18mm				
Working Stage	Plain Stage With Clips, Size 90x90mm				
Condenser	Single Lens Condenser, 6 Holes Disc Diaphragm				
Illumination	Up & Bottom LED Light, Both Brightness Adjustable				
Power	Powered By Outlet AC/DC Adapter (110V/220V), Or By 3xAA Batteries (Not Included) For Cordless Usage				
Power Switch With 4 Levels: Off, Up LED, Bottom LED, Up & Bottom LED					

PTO-EDU



#### A11.1505 Student Biological Microscope, Round Stage



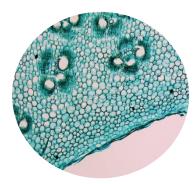


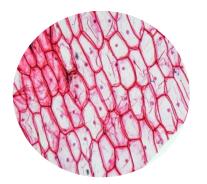
Round Working Stage Dia.120mm



Straight Monocular Head Inclination Adjustable Total Magnfication 25x~675x, Eyepiece H5x,10x,15x, Objective 5x,10x,45x Separate Coarse & Fine Focusing Knob, Focus Range 27mm Round Stage Dia.12mm With Single Lens Condenser Plan-Concave Mirror Dia. 50mm

	A11.1505 Biological Microscope				
Total Magnification	Fotal Magnification 25x - 675x				
Head	Monocular Vertical Head Tube				
Eyepiece	yepiece 5x, 10x, 15x				
Objectives	jectives 5x, 10x, 45x				
Illuminator					
Focusing	Coarse Adjustment Range: 27mm, Fine Adjustment Range : 1.4~1.8mm				
Stage	tage Round Working Stage Dia. 120mm				
	A11.1505 Biological Microscope Optional Accessories				
Illuminator	Electrical Illuminator (110V/220V 20W)				







# A11.1508

**Student Biological Microscope,** Vertical Monocular Head

#### OPTO-EDU





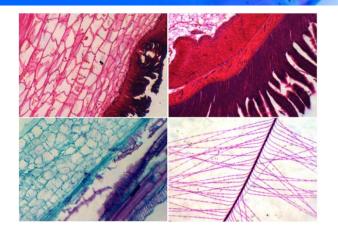
6

Monocular Vertical Head, Whole Body Inclination Adjustable Total Magnification 40x~1600x Available Coarse & Fine Focusing Knob, Focusing Range 50mm Single Layer Stage With Vernial Scale Attached Plan-Concave Mirror Dia. 40mm

	A11.1508 Student Biological Microscope	1	2	3	4	5	6
Head	Mono Vertical Tube	•	•	•	•	•	•
Eyepiece	5x	-	-	•	•	•	•
	10x	•	٠	٠	•	•	•
	12.5x	•	-	-	•		-
	15x	-	-	-	-	•	
	16x		•	-	-		•
	4x	•	•	-	-	-	-
Ohioative	10x	•	•	•	•	•	•
Objective	40x	•	•	•	•	•	•
	100x	-	-	•	•	•	•
Nosepiece	Triple Revolving Nosepiece	•	•	•	•	•	•
•	Stage with Specimen Clips, Size110x120mm	•	•	-	-	-	-
Stage	Stage with Specimen Clips, Size120x120mm	-	-	•	•	•	•
	Mechanical Slide Holder Vernial Scale	-	-	•	•	•	•
Condonoor	5 Holes Disc Diaphragm	•	•	-	-	-	-
Condenser	N.A.=1.25 with Iris Diaphragm & Filter	-	-	•	•	•	•
	Separate Coarse and Fine Focusing Knobs						
Focusing	Coarse Fousing Range 50mm,	•	•	•	•	•	•
-	Fine Focusing Range 1.8mm-2.2mm						
Light Source	Concave-Plan Mirror, Dia 50mm	•	•	•	•	•	•
	Optional Accessories						
	Attachable Electrical Illuminator (110V/220V 20W)			A56.1501			
	LED 0.75W, Brightness Adjustable, Recharge Battery 3.7V, 400mAh, Power	A56.5110					
Light Source	By DC3.5 Charger		A	50.	211	.0	
	LED 0.75W, Brightness Adjustable, 400mAh, Power By DC3.5 Charger	A56.511			11(	)-N	

#### A11.1518 Student Biological Microscope

#### OPTO-EDU



The Cheapest Binocular Head Student Microscope Total Magnification 40x~400x, WF10x Eyepiece, Achromatic 4x,10x,40x Objectives LED Light Source Brightness Adjustable 3xAA Batteries And DC In Power Supply Optional



	Student Biological Microscope	A11.1518-M	A11.1518-B
Magnification	40x~400x		
Head	Monocular, 45° Inclined, 360° Rotatable	0	
пеац	Binocular, 45°Inclined, 360° Rotatable		0
Eyepiece	WF10x/16mm		
Objectives	Achromatic 4x,10x, 40x(Spring)		
Nosepiece	Backward Tripe Nosepiece		
Working Stage	Plain Stage with Clips, Size: 90x90mm		
Focusing	Coarse Focusing Knob, Focusing Range 15mm		
Condenser	Abbe Condenser N.A. 0.65, With 6 Holes Disc Diaph	ragm	
Illumination	Bottom LED Light, Brightness Adjustable		
Power	Powered By Outlet AC/DC Adapter (110V/220V), Or Included) For Cordless Usage	By 3 pcs AA Bat	teries (Not

### A11.1521 Student Biological Microscope

#### OPTO-EDU





Monocular, Binocular, Trinocular Head Optional Totol Magnification 40x-1000x Achromatic Optical System Double Layer Mechancial Stage 115x125mm With Abbe N.A.1.25 Condenser Coaxial Coarse & Fine Focusing Knob Halogen 6V20W or LED Light Source Brightness Adjustable



Outward quadruple nosepiece, ball bearing inner locating, equipped with achromatic 4x, 10x, 40x(s), 100x(s, oil).



OFTOEDU

	A11.1521 Biological Microscope	-M	-B	-т
	Monocular Head, 45° Inclined, 360° Rotatable	0		
Head	Binocular Head, 30° Inclined, 360° Rotatable		0	
	Trinocular Head, 30° Inclined, 360° Rotatable			0
Eyepiece	WF10x			
Nosepiece	Quadruple Nosepiece, Ball Bearing Inner Locating			
Objective	Achromatic 4x,10x,40x(s), 100x(s, oil)			
Working Stage	Double Layer Mechanical Stage 115*125mm			
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Range 20	)mm		
Condenser	Abbe Condenser N.A.1.25, With Iris Diaphragm Filter			
Light Source	Halogen Lamp or LED Optional, Brightness Adjustable			
	A11.1521 Biological Microscope Optional Accessories			
Eyepiece	WF16x	A51.1	503-1	6

### A11.1521-M1 Student Biological Microscope,

Monocular, Plastic Body

#### OPTO-EDU

Monocular Head 45° Inclined 360° Rotatable Total Magnification 40x-400x Achromatic Optical System Plain Working Stage 115x125mm With Disc Diaphragm Coaxial Coarse & Fine Focusing Knob LED Light Source Brightness Adjustable



Outward triple nosepiece, ball bearing inner locating, equipped with achromatic 4x, 10x, 40x.





# 03 WORKING STAGE

Metal plain stage 120x120mm with clips.

	A11.1521-M1 Biological Microscope	
Head	Monocular Head, 45° Inclined, 360° Rotatable	
Eyepiece	WF10x/16mm	
Nosepiece	Triple Nosepiece, Outward, Ball Bearing Inner Locating	
Objective	Achromatic 4x,10x, 40x(s)	
Working Stage	Metal Plain Stage, With Clips, 120x120mm	
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Ran	ige 33mm
Condenser	Condenser N.A.0.65, Disc Diaphragm	
Light Source	LED	
	A11.1521-M1 Biological Microscope Optional Accessor	ries
Eyepiece	WF16x	A51.1503-16

# A11.1531

Student Biological Microscope

#### OPTO-EDU



A11.1531-B

Monocular, V Teaching, Binocular, Trinocular Head Available Optional WF16x, WF20x Eyepiece Enable Utmost 2000X Optical Magnification. Abbe Condenser N.A. 1.25 With Iris Diaphragm And Filter Holder Quarduple Nosepiece With Achromatic Objectives 4x,10x,40x,100x 3W LED Brightness Adjustable

	A11.1	531 Student Biologica	I Microscope				
Model	A11.1531-V	A11.1531-M	A11.1531-B	A11.1531-T			
Optical System	Finity Optical System						
	Teaching Head	Monocular Head	Binocular Head	Trinocular Head			
Head	Inclined at 30º, 360ºRot Left Tube	atable, Interpupillary Dis	stance 54~75 mm, Diopt	er Adjustable ± 5 On			
Eyepiece	Wide Field Eyepiece W	F10X/18mm					
Objective	Achromatic Objectives 4	4X 10X 40Xs 100Xs(oil)					
Nosepiece	Quadruple Nosepiece						
Condenser	Iser Abbe Condenser N.A. 1.25 With Iris Diaphragm And Filter Holder						
Focusing System		k Stop To Prevent Dam	ision 0.002mm, Coarse age To Sample And Obj				
Stage	Double Layer Mechanic	al Stage 110X125mm, N	Noving Range 30X75mn	า			
	3W LED Brightness Adj	ustment					
Illumination	Optional: Power By Batt	tery					
	Optional: Power By Rechargeable Battery With External 100-240V Mains Adapter						
Adapter	Eyepiece Tube Adapter	N/A	N/A	Eyepiece Tube Adapter			

	A11.1531 Biological Microscope Optional Accessories				
Eveniege	Wide Field Eyepiece WF16X/13mm	A51.1503-16			
Eyepiece	Wide Field Eyepiece WF20X/11mm	A51.1503-20			
Objective	Plan Achromatic CF Objectives 4X 10X 40Xs 100Xs (oil)	A52.1510			
	1.0X	A55.1530-10			
CCD Adapter	0.5X	A55.1530-05			

#### A11.1551 **Student Biological Microscope**

#### OPTO-EDU





A11.1551-M

A11.1551-T

A11.1551-B

OPTO-EDU

Monocular, Binocular, Trinocular And Teaching Head Available For Choose. Quadruple Nosepiece With Precise Click Stop. Intergrated Double Layer Mechanical Stage, Size 142x132mm, Moving Range 75x50mm. Abbe Condenser N.A.1.25, High Brightness 3W LED, Brightness Adjustable Finity Optical System, Achromatic

	A11.1551 Bi	ological Microscope			
Model	A11.1551-M	A11.1551-B	A11.1551-T		
Optical System	Finity Optical System, Achromat	ic			
	Monocular Viewing Head	Seidentopf Binocular Head	Seidentopf Trinocular Head		
Head	Inclined at 30°, 360° Rotatable	Inclined at 30°, 360° Rotatable	Inclined at 30°, 360° Rotatable		
Eyepiece	Wide Field Eyepiece WF10X/18	mm			
Objective	Achromatic Objectives 4X 10X 4	0Xs 100Xs(oil)			
Nosepiece	Quadruple Nosepiece				
Condenser	Abbe Condenser N.A. 1.25 With	Diaphragm, Filter			
Focusing	Coaxial Coarse and Fine Adjust Adjustment	ment, Fine Division 0.002mm, Coa	arse Stroke 36mm With Tension		
Stage	Double Layer Mechanical Stage	142X132mm, Moving Range 75X	50mm		
Illumination	6V/20W Halogm Lamp,Brightnes	ss Adjustable			
Adapter	N/A	N/A	Eyepiece Tube Adapter		
	A11.1551 Biological Mi	croscope Optional Accessories			
Francisco	Wide Field Eyepiece WF16X/13	mm	A51.1503		
Eyepiece	Wide Field Eyepiece WF20X/11	mm	A51.1503		
Objective	Plan Achromatic CF Objectives	4X 10X 40Xs 100Xs (oil)	A52.1510		
Nosepiece	Quintuple Nosepiece		A54.1502-5A		
	1.0x C-Mount		A55.1550-10		
CCD Adapter	0.5x C-Mount		A55.1550-05		
Illumination	3W LED Brightness Adjustable,	Rechargeable, Without Batteries	A56.1503		

### A11.5101 Heating Stage Biological Microscope

#### OPTO-EDU

Tempurature Control & Display LED On Base Total Magnification 40x-640x, Eyepiece H10x, H16x, Objective 4x,10x,40x Heated Stage 37°C-38°C, Size 110mmx120mm, Moving 60mmx30mm LED Light Source Power By DC 12V, Brightness Adjustable Aluminum Case To Pack All Accesories For Easy Carring



Temperature Control And Display Screen To Ensure The Activity Of The Observed Sample And Make The Observation Result More Accurate



OPTO-EDU

Aluminum Box + Strong Master Carton

	A11.5101 Heating Stage Biological Microscope
Magnification	40x-640x
Eyepiece	H10x, H16x
Head	Monocular, 45° Inclined 360° Rotatable
Nosepiece	Triple
Objective	Achromatic 4x, 10x, 40x(s)
Focusing	Coarse Focusing Distance 20mm
Stage	Heated Stage 37°C-38°C, Size 110x120mm, Moving Range 60mmx30mm
Condenser	Disc Rotating Diaphragm, Ф3.2, Ф4, Ф5, Ф8, Ф15
Light Source	LED, 12V, Brightness Adjustable
Packing	Aluminum Box + Strong Master Carton

#### A11.5121 Microscope

#### OPTO-EDU

Monocular, Binocular, Trinocular Head Optional Totol Magnification 40x-1000x Achromatic Optical System Double Layer Mechancial Stage 115x125mm With Abbe N.A.1.25 Condenser Coaxial Coarse & Fine Focusing Knob LED Light Source Brightness Adjustable

#### **Product Upgrade**



A31.5121 Digital Biological Microscope, 5.0M



#### **Specification**

A33.5121 9" LCD Biological + USB Portable Dual Lens Digital Microscope, 5.0M

	A11.5121 Biological Microscope
Head	Binocular Head, 30° Inclined, 360° Rotatable
Eyepiece	WF10x, WF16x
Nosepiece	Quadruple Nosepiece, Ball Bearing Inner Locating
Objective	Achromatic 4x,10x,40x(s), 100x(s, oil)
Working Stage	Double Layer Mechanical Stage 115*125mm
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Range 20mm
Condenser	Abbe Condenser N.A.1.25, With Iris Diaphragm Filter
Light Source	LED, Brightness Adjustable
Accessory	Prepared Slide 10pcs in Box, Experiment Kit
Packing	Hand Carry Box + Master Carton

#### A11.0216 Biological Microscope









Binocular Head With Left Eyepiece Tube Diopter Adjustable Achromatic/Plan Objective On Quarduple With Slot For Polarzier Colorful Handle For Easy Carring Optional 1W LED Light Source Brightness Adjustable Low Voltage Power Supply By External 5V Adapter, Or USB Power Bank







Abbe Condenser N.A.1.25, Rack & Pinion Adjustable

1W LED, Brightness Adjustable

	A11.0216 Biological Microscope
Head	Binocular Head, Inclination 30°, Rotatable 360° , Left Eyepiece Tube Diopter Adjustable
	Achromatic 4x/0.10
Objective	Achromatic 10x/0.25
(Standard)	Achromatic 40x/0.65(Spring)
	Achromatic 100x/1.25(Spring, Oil)
	Plan Achromatic 4x/0.10
Objective	Plan Achromatic 10x/0.25
(Optional)	Plan Achromatic 40x/0.65(Spring)
	Plan Achromatic 100x/1.25(Spring, Oil)
Focus System	Coaxial Coarse/Fine Focus System With Up Stop, Minimum Division Of Fine Focusing: 2µm
Nosepiece	Quadruple(Backward Ball Bearing Inner Locating)
Stage	Double Layer Mechanical (Size:125mmX115mm, Move Range: 70mmX30mm)
Abbe Condenser	N.A.1.25, Rack & Pinion Adjustable
Filter	Frosted Filter
Collector	For LED Lamp
Light Source	1W LED With Brightness Control, Optional Rechargeable Battery, External 5V Power Adapter Or USB Power Bank



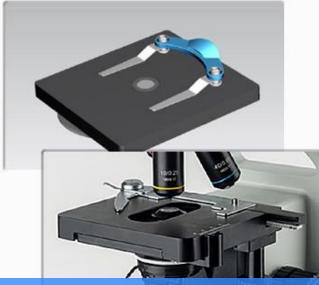
#### A11.0913 Biological Microscope





Newly Design Elegent Shape With High Quality Surface Excellent Optical System Makes Student To View Clear & Sharp Image Easily Double Layers Mechanical Stage 115x125mm Coaxial Course & Fine Focusing LED Light Source Brightness Adjustable, With Built-in Rechargeable Battery Module & LED Indicator Power By USB Adapter or USB Bank, Computer USB Port

OPTO-EDU)



Single Layer Working Stage 110x120mm With Quick Slide Clip, Double Layer Mechanical Stage 115x125mm Optional



LED Light Source Brightness Adjustable, With Built-in Rechargeable Battery Module & LED Indicator

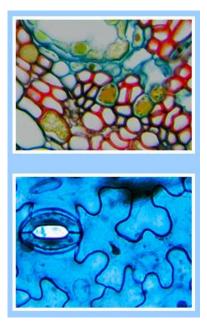
### **Product Specification**



	A11.0913 Student Biological Microscope	Μ	В	т	PB	P
	Monocular Head 30° Inclined	•				
Head	Binocular Head 30° Inclined, 360° Rotatable, Inter-pupillary Distance 50~75mm		•		•	
Tiedd	Trinocular Head 30° linclined, 360° Rotatable, Inter-pupillary Distance 50~75mm, Light Splitting Ratio Fixed 50:50			•		
	WF Plan Eyepiece 10x/18mm With Eye Guard	•	••	••	••	•
Eyepiece	WF Plan Eyepiece 10x/18mm With Pointer	0	0	0	0	
	WF Plan Eyepiece 10x/18mm With Micrometer	0	0	0	0	(
Nosepiece	Reversed Quadruple Nosepiece	٠	•	•	•	
	Achromatic Objectives 4x/0.10(Black)	•	•	•		
	Achromatic Objectives 10x/0.25(Black)	•	•	•		
	Achromatic Objectives 40xS/0.65(Black)	٠	•	•		
	Achromatic Objectives 100xS/1.25(Oil)(Black)		•	•		
Objective	Plan Achromatic Objectives 4x/0.10				•	
	Plan Achromatic Objectives 10x/0.25				•	
	Plan Achromatic Objectives 20x/0.40				0	
	Plan Achromatic Objectives 40xS/0.65				•	Γ
	Plan Achromatic Objectives 100xS/1.25(Oil)				•	
Working	110x120mm Single Layer Stage, With Quick Slide Clips, N.A.0.65 Single Condenser With 5 Holes Disc Diaphragm	•				
Stage	115x125mm Double Layers Mechanical Stage, With N.A.1.25 Abbe Condenser, With Iris Diaphragm & Filter Holder, Moving Range 22mm-71mm		•	•	•	
Focusing	Coaxial Coarse & Fine Focus, With Coarse Adjustment Stop Screw And Tightness Adjustment, Focusing Range 13mm With Clip Stage, (7mm With Mechnical Stage), Precision 0.002mm	•	•	•	•	
Light	0.2W LED Center Presetting, Intensity Adjustable	•	•	•	•	
Dente	External Wide Voltage AC Adapter Wide Range 100V~240V, Power By 5V1A DC Input or USB Charge, Without Battery.	•	•	•	•	
Power	External Wide Voltage AC Adapter Wide Range 100V~240V, Power By 5V1A DC Input or USB Charge, With Rechargeable Battery Module	0	0	0	0	
	C-mount 0.35x Focus Adjustable	0	0	0	0	
Adapter	C-mount 0.5x Focus Adjustable	0	0	0	0	
Auaptei	C-mount 0.65x Focus Adjustable	0	0	0	0	
	C-mount 1.0x Focus Adjustable	0	0	0	0	T
0.1	M4 Allen Key Focus Adjustable	•	•	•	•	
Other	Package by Foam And Paper Master Carton	•	•	•	•	

#### A11.1007 Laboratory Biological Microscope XSZ107BN







Classical 107BN Laboratory Biological Microscope High Quality Optical System Bring Clear & Sharp Image Large Size Mechanical Stage 140x140mm, Moving Range 50x75mm Halogen Lamp 6V20W + Plain-Concave Mirror For Using Without Power Supply Upgrade With Dark Field, Polarizing, Phase Contrast, Fluorescent Function





## **Product Specification**

--Excitation Filter U/V



A11.1007 Biological Microscope

							v v	V VV F	T
Magnification	40x~1600x	_							
	Black Monocular Teaching Head, 45° Inclined, 360° Rotatable	•							
	Black Sliding Binocular Head, 45° Inclined, 360° Rotatable		•						
	Black Sliding Trinocular Head, 45° Inclined, 360° Rotatable			•					
	Black Seidentopf Binocular Head, 30° Inclined, 360° Rotatable				•				
1	Black Seidentopf Trinocular Head, 30° Inclined, 360° Rotatable					•			
Head	White Sliding Binocular Head, 45° Inclined, 360° Rotatable						•		$\vdash$
	White Sliding Trinocular Head, 45° Inclined, 360° Rotatable							•	$\square$
	White Seidentopf Binocular Head, 30° Inclined, 360° Rotatable							•	
	White Seidentopf Trinocular Head, 30° Inclined, 360° Rotatable						+		•
	With Eyepiece Adapter & 1.0x C-Mount	•		•		•		•	•
Eyepiece	Wide Field WF10x/18mm, WF16x/11mm								
Vosepiece	Quadruple Nosepiece								
100001000	Achromatic Objective								
	4x/0.1, W.D.=25mm								
Objective	10x/0.25, W.D.=11mm								
,	40x/0.6(S), W.D.=3.8mm								
	100x/1.25(S,Oil), W.D.=0.1mm								
Stage	Double Layer Mechanical Stage, 140x140mm, Mvoing Range 50x75mm								
Focusing	Low Position Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002mr	n,							
	With Tension Adjustment, With Up Limit								
Condenser	N.A.1.25 Abbe Condenser, Iris Diaphargm, With Filter Holder								
Filter	Blue, Yellow, Green								
_ight Source	Built-in Illumination LED, Brightness Adjustable								
	A11.1007 Biological Microscope Optional Accessories								
✓ideo Adapte	r0.45x C-Mount With Reduction Lens					100			
Objective	Achromatic 20x/0.4, W.D.=9mm			-		100			
-	Achromatic 60x/085(S)					100			
_ight Source	Plan-Concave Mirror					100			
	Dark Field Condenser, N.A. 0.7~0.9, Dry					.10			
<del>.</del>	Dark Field Condenser, N.A. 1.25~1.35, Oil Immersion			A5	bD	.10	<u>J</u> 6	-1	
Dark Field	Dark Field Objective Achromatic 100x, with Cone Diaphram, Used With A5D.1006-I			A5	5D	.10	30	-1	
	Dark Field Objective Plan 100x, With Iris Diaphram, Used With A5D.1006-I			A5	5D	.10	30	-2	
Polarizing	Simple Polarizing Kit			A5	δP	.10	01		
	Sliding Phase Contrast Set								
Phase	Sliding Phase Contrast Condenser								
Contrast	Achromatic Phase Contrast Objective 10x,40x			A5	5C	.10	02	-C3	5
	Centering Telescope								
	Green Filter								
	EPI-Fluorescent Kit								
	Power Supplier 220V/110V Interchangeable, Digital Display								
	100WHBO Ultra Hi-Voltage Spherical Mercury Lamp Barrier To Resist Ultraviolet Light			۵.	두	.100	1ך		
Fluorescent	Fluorescence Free Oil			70	דר.	100	ונ		
	Fluorescent Objective 10x,25x,40x,100x								
	Excitation Filter B/G								
				A -		100		1.15	

#### A11.1009 Student Biological Microscope





A11.1009-D

А11.1009-Е

High Quality Compact Design Student Biological Microscope WF10x/18mm Wide Field Eyepiece Monocular, Binocular Head 45° Inclined, 360° Rotatable Double Layer Mechnical Stage 110x120mm Moving 70x20mm Coaxial Coarse & Fine Focuing Konb, Light Source Brightness Adjustable

Items	A11.1009 Student Biological Microscope	D	E
Head	Monocular Head, 45° Inclined, 360° Rotatable	•	
neau	Sliding Binocular Head, 45° Inclined, 360° Rotatable		•
	Wide Field WF10x/18mm	•	•
Eveniego	WF5x	0	0
Eyepiece	WF16x	0	0
	WF10x Eyepiece With Pointer	0	0
Nosepiece	Triple Nosepiece	•	
Nosepiece	Quadruple Nosepiece		•
	4x/0.10, 10x/0.25, 40x/0.65(S)	•	
Achromatic Objective	4x/0.10, 10x/0.25, 40x/0.65(S), 100x/1.25(S,Oil)		•
	20x 60x	0	0
Magnification	40x~400x	•	
Magnification	40x~1000x		•
Stage	Double Layer Mechanical Stage, 110*120mm, Moving Range 70*20mm	•	•
Focusing	Coaxial Coarse & Fine Focusing	•	•
Condenser	Abbe Condenser N.A.1.2, With Iris Diaphragm, With Blue Filter, Rack & Pinion Up/Down Adjustment	•	•
	Incandescent Lamp Illumination 15W, Brightness Adjustable	•	
Light Source	LED Lamp Illumination 1W, Brightness Adjustable		•
	Mirror	0	0
Spare Parts	Dust Cover, Spare Bulb & Fuse	•	•

## A11.2601 Student Biological Microscope

#### OPTO-EDU



A11.1551-M



A11.1551-T, -TP

A11.1551-B, -BP

Wide Field Eyepiece WF10x/18mm High Contrast Achromatic Objective 4x,10x,40x,100x Mechanical Stage 115x125mm Moving Range 70x35mm Full Metal Body High Rigid Construction 3W LED, Cordless Rechargeable Function Optional



A11.2601 Student Biological Microscope	-M	<b>-B</b>	-T	-BP	-TP	Cata. No.
Monocular Head Inclined 30°, Rotatable 360°	•					A53.2601-M
Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm		•		•		A53.2601-B
Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48- 75mm, Light Split Fixed P20/E80			•		•	A53.2601-T
WF10x/18mm	•	••	••	••	••	A51.2602-1018
WF16x/13mm	0	0	0	0	0	A51.2602-1613
WF10x/18mm With Pionter	0	0	0	0	0	A51.2604-1018
WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line	0	0	0	0	0	A51.2605-1018
WF10x/18mm With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	0	0	0	0	0	A51.2605-1018E
Quadruple, Backward	•	•	•	•	•	A54.2610-N03
4x/0.1, W.D.=18.6mm	•	•	•			A52.2601-4
10x/0.25, W.D.=6.5mm	•	•	•			A52.2601-10
20x/0.40, W.D.=1.75mm	0	0	0			A52.2601-20
40x/0.6(S), W.D.=0.47mm	•	•	•			A52.2601-40
60x/0.80(S), W.D.=0.10mm	0	0	0			A52.2601-60
	•	•	•			A52.2601-100
4x/0.1, W.D.=14.5mm				•	•	A52.2603-4
10x/0.25, W.D.=5.65mm				•	•	A52.2603-10
20x/0.40, W.D.=5.65mm				0	0	A52.2603-20
40x/0.6(S), W.D.=0.85mm				•	•	A52.2603-40
100x/1.25(S,O), W.D.=0.07mm				•	•	A52.2603-100
Double Layer Mechanical Size 125×115mm, Travel Range 35×75mm	•	•	•	•	•	A54.2601-S03
Abbe N.A. 1.25(Iris Diaphragm)	•	•	•	•	•	A56.2614-09
Coaxial Coarse And Fine Focusing Knobs, Travel Range: 22mm, Scale: 2µm	•	•	•	•	•	
1.0x (Focus Adjustable)			0		0	A55.2601-B10
0.5x (Focus Adjustable)			0		0	A55.2601-B05
3W LED Illumination Systems	•	•	•	•	•	A56.2613-3W
3W LED Illumination Systems (Rechargeable)	0	0	0	0	0	A56.2651-3WR
12V 20W Halogen Lamp, Wide Voltage: 100V- 240V	0	0	0	0	0	A56.2650-20W
Plano-Concave Mirror	0	0	0	0	0	A56.2601-B
Dark Field Ring, For 4x~40x Objective	0	0	0	0	0	A5D.2611-B
•	0	0	0	0	0	A5P.2601-B
Gross Weight 7.0kgs, Net Weigth 5.5kgs						
	Monocular Head Inclined 30°, Rotatable 360° Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48- 75mm, Light Split Fixed P20/E80 WF10x/18mm WF10x/18mm With Pionter WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line WF10x/18mm With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable Quadruple, Backward 4x/0.1, W.D.=18.6mm 10x/0.25, W.D.=6.5mm 20x/0.40, W.D.=1.75mm 40x/0.6(S), W.D.=0.10mm 100x/1.25(S,O), W.D.=0.07mm 4x/0.1, W.D.=14.5mm 10x/0.25, W.D.=5.65mm 20x/0.40, W.D.=5.65mm 20x/0.40, W.D.=5.65mm 20x/0.40, W.D.=5.65mm 40x/0.6(S), W.D.=0.07mm 4x/0.1, W.D.=5.65mm 20x/0.40, W.D.=5.65mm 100x/1.25(S,O), W.D.=0.07mm 100x/1.25(S,O), W.D.=0.07mm 50uble Layer Mechanical Size 125×115mm, Travel Range 35×75mm Abbe N.A. 1.25(Iris Diaphragm) Coaxial Coarse And Fine Focusing Knobs, Travel Range: 22mm, Scale: 2µm 1.0x (Focus Adjustable) 0.5x (Focus Adjustable) 3W LED Illumination Systems 3W LED Systems 3W LED Illumination Systems 3W LED Systems 3W LED Systems 3W LED Systems 3W LED Systems 3W LED Systems 3W LED	Monocular Head Inclined 30°, Rotatable 360°Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mmSeidentopf Trinocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm, Light Split Fixed P20/E80WF10x/18mm•WF10x/18mm With Pionter•WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line•WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable•Quadruple, Backward•4x/0.1, W.D.=18.6mm•10x/0.25, W.D.=6.5mm•20x/0.40, W.D.=1.75mm•60x/0.80(S), W.D.=0.47mm•60x/0.80(S), W.D.=0.07mm•4x/0.1, W.D.=14.5mm•10x/1.25(S,O), W.D.=0.07mm•40x/0.6(S), W.D.=0.85mm•20x/0.40, W.D.=5.65mm•20x/0.40, W.D.=5.65mm•<	Monocular Head Inclined 30°, Rotatable 360°•Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm•Seidentopf Trinocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm, Light Split Fixed P20/E80•WF10x/18mm••WF10x/18mm With Pionter••WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable•Quadruple, Backward••4x/0.1, W.D.=18.6mm••10x/0.25, W.D.=6.5mm••20x/0.40, W.D.=1.75mm••00x/1.25(S,O), W.D.=0.07mm••4x/0.1, W.D.=14.5mm••10x/0.25, W.D.=6.65mm••20x/0.40, W.D.=1.75mm••0x/0.6(S), W.D.=0.07mm••4x/0.1, W.D.=14.5mm••10x/1.25(S,O), W.D.=0.07mm••4x/0.1, W.D.=12.65mm••20x/0.40, W.D.=5.65mm••20x/0.40, W.D.=5.65mm•• </td <td>Monocular Head Inclined 30°, Rotatable 360°         Image: Constraint of the system of the syste</td> <td>Monocular Head Inclined 30°, Rotatable 360°         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •<td>Monocular Head Inclined 30°, Rotatable 360°       •       •       •         Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm. Light Split Fixed P20/E80       •       •       •         WF10x/18mm       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       <t< td=""></t<></td></td>	Monocular Head Inclined 30°, Rotatable 360°         Image: Constraint of the system of the syste	Monocular Head Inclined 30°, Rotatable 360°         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         • <td>Monocular Head Inclined 30°, Rotatable 360°       •       •       •         Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm. Light Split Fixed P20/E80       •       •       •         WF10x/18mm       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       <t< td=""></t<></td>	Monocular Head Inclined 30°, Rotatable 360°       •       •       •         Seidentopf Binocular Head Inclined 30°, Rotatable 360°, Interpupilary Distance 48- 75mm. Light Split Fixed P20/E80       •       •       •         WF10x/18mm       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •         WF10x/18mm       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       • <t< td=""></t<>

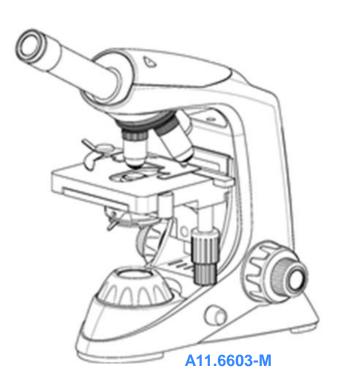
#### A11.6603 Biological Microscope

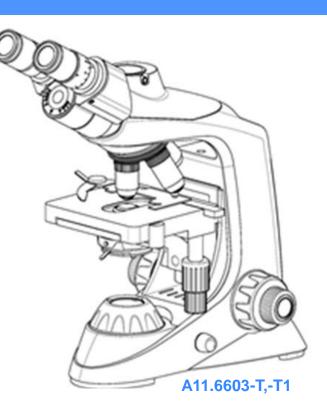
#### OPTO-EDU



A11.6603-B, -B1

New Design in 2019 For Student & School! China Industrial Best Design Award-Red Star Winner Product! 3W LED High Brightness, Support Cordless Charging Battery or Solar Power Excellent Optical Quality System Supply Sharp Image Elegant Design With Built-in Easy Handle For Easy Moving + Wire Winding Device





A11.6603 Biological Microscope Is Suitable For Observing All Kinds Of Biological Specimens And Can Be Used In Schools, Hospitals And Homes. It Is An Ideal Assistant For Various Learning And Experimental Research.

Items	A11.6603 Biological Microscope Specification	M	В	т	B1	<b>T1</b>	Cata. No.
	Monocular Head, Inclined 30°	•					A53.2603-M
Head	Seidentopf Binocular Head, Inclined 30°, Swiveling Siedentopf Head, Interpupilary Distance: 48-75mm		•		•		A53.2603-B
Tiedu	Seidentopf Trinocular Head, Swiveling Siedentopf Head, Interpupilary Distance: 48-75mm, Light Split Fixed P20:E80			•		•	A53.2603-T
	WF10x/18mm	••	••	••	••	••	A51.2602-1018
	WF16x/13mm	00	00	00	00	00	A51.2602-1613
Eyepiece	WF10x/18mm With Pointer	00	00	00	00	00	A51.2604-1018
	WF10x/18mm (Non-adjustable, Reticule 0.1mm)	00	00	00	00	00	A51.2605-1018
	WF10x/18mm (Adjustable, Reticule 0.1mm)	00	00	00	00	00	A51.2605-1018D
Nosepiece	Quadruple, Backward	•	•	•	•	•	A54.2610-N03
	4x/0.1, W.D.=18.6mm	•	•	•			A52.2601-4
	10x/0.25, W.D.=6.5mm	•	•	•			A52.2601-10
Achromatic	20x/0.40, W.D.=1.75mm	0	0	0			A52.2601-20
Objective	40x/0.6(S), W.D.=0.47mm	•	•	•			A52.2601-40
	60x/0.80(S), W.D.=0.10mm	0	0	0			A52.2601-60
	100x/1.25(S,O), W.D.=0.07mm	•	•	•			A52.2601-100
	4x/0.1, W.D.=14.5mm				•	•	A52.2603-4
Plan	10x/0.25, W.D.=5.65mm				•	•	A52.2603-10
Objective	40x/0.6(S), W.D.=0.85mm				•	•	A52.2603-40
	100x/1.25(S,O), W.D.=0.07mm				•	•	A52.2603-100
Working Stage	Mechanical Stage Size 125×115mm, Travel Range 33×71mm	•	•	•	•	•	A54.2601-S03
	Abbe Condenser N.A.1.25, Iris Diaphragm, Spiral Up/Down, With Filter Holder	•	•	•	•	•	A56.2614-09
Focusing	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 25mm, Fine Focusing Scale 2µm/Division	•	•	•	•	•	
Adaptar	1.0x C-Mount			0		0	A55.2601-B10
Adapter	0.5x C-Mount Focus Adjustable			0		0	A55.2601-B05
Dark Field	Dark Field Ring, For 4x~40x Objective	0	0	0	0	0	A5D.2611-B
	3W LED Illumination With Aspheric Collector, Wide Range Voltage: 100V~240V	•	•	•	•	•	A56.2612-3W
Base	External Transformer And Data Cable	•	•	•	•	•	
Package	Carton Size 435×378×265mm, 1 Unit/Ctn						
Weight	Gross Weight 6.0kgs, Net Weigth 4.4kgs						
Note: "•"In Table	e Is Standard Outfits, "o" Is Optional Accessories.						

#### A12.1502 Laboratory Biological Microscope

OPTO-EDU



Cover Can Be Removed For Easy Bulb Change



Research Level Laboratory Microscope WIth Infinity High Contrast Optical System Large View Field Eyepiece WF10x/22mm Tube Dia.30mm Large Size Mechanical Working Stage 216x150mm Moving 75x55mm Safety Rackless Round Edge Working Stage With Double Slide Holder 3W LED Kohler Illumination With Removable Light House For Easy Maintainence





	A12.1502 Laboratory Biological Microscope	В	Т	AB	AT
Optical System	Infinity Optical System	0	0		
Optical System	Achromatic Optical System			0	0
Head	Binocular, Inclined at 30°, Interpapillary 48-75mm, 360° Rotatable	0		0	
Trinocular, Inclined at 30°, Interpapillary 48-75mm, 360° Rotatable			0		0
Evonioco	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustment -/+5	0	0		
Eyepiece	WF10x/20mm, Dia.30mm, High Eyepoint, Diopter Adjustment -/+5			0	0
Nosepiece	Backward Quadruple Nosepiece	0	о	0	0
Objective	Infinite Plan High Contrast Chromatic-free 4X,10X,40X,100X	0	0		
Objective	High Contrast Chromatic-free 4X,10X,40X,100X			0	0
Condenser	Abbe Condenser NA1.25, with Iris Diaphragm, Center Adjustable	0	о	0	0
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Moving Range 24mm, With Safety Stop Screw, Tension Adjustable	0	ο	ο	ο
Working Stage	Large Size Double Layer Mechanical Stage 216x150mm, Graphite Surface, Moving Range 75mmx55mm, Reckless Safety Round Edge	0	о		
	Large Size Double Layer Mechanical Stage 142x132mm, Graphite Surface, Moving Range 75mmx50mm			о	0
Light Source	Kohler Illumination, 3W/LED, Brightness Adjustable, With Blue Filter	0	о		
Light Source	External Illumination, 3W/LED, Brightness Adjustable, With Blue Filter			0	0
Adapter	C-Mount 1.0x		о		0

## **Optional Accessories**

	A12.1502 Laboratory Biological Microscope Optional Accessories							
Eveniese	WF16X/F.N.15mm	A51.1502-16						
Eyepiece	WF20X/F.N.12mm	A51.1502-20						
Nosepiece	Backward Quintuple Nosepiece	A54.1502-5						
Dark Field	Dark Field Condenser, Dry, N.A.1.25	A5D.1502-D						
Dark Fleid	Dark Field Condenser, Immersion, N.A.1.25~1.36	A5D.1502-I						
Polarizing	Polarizer & Analyzer	A5P.1501						
Adaptar	Eyepiece Tube Adapter	A55.1502-E						
Adapter	C-Mount 0.5x	A55.1502-05						





Unique Designed Dimming Objective 4x/10x, No Need To Lower Brightness When Use Creative 100x Water Objective Instead Of I00x Oil Objective For Easy Use Without Oil Elegant Design With Built-in Easy Handle For Easy Moving + Wire Winding Device



Objective, More Be Convenient For Using

OIL 100X Water Objective(Optional) Instead Of 100X Oil

Seidentop Binocular Head, Inclined 30°, Rotatable 360°, Seidentop Trinocular Head, Inclined 30°, Rotatable 360°, Digital Head, 5.0M 1/2°CMOS USB2.0 Digital Camera Built-in, Bights Jate Fixed P20/E80         A33.2602-5           Upital Head, 5.0M 1/2°CMOS USB2.0 Digital Camera Built-in, Digital Head, 5.0M 1/2°CMOS USB2.0 Digital Camera Built-in, Bight Split Fixed P20/E80         Image: Comparison of the Compari	Items	A12.6603 Biological Microscope	в	т	В 2	T2	В 3	ТЗ	В 4	T4	Cata. No.
Seliciency Trinocular Head, Inclined 30°, Rotatable 360°, Digital Heropuliary Distance: 48-75m, Ught Split Fixed P20:E80         Image Split Fixed P20:E80		•	•		•		•		•		A53.2602-B
Head         Interpupilary Distance: 48-75mm, Light Split Fixed P20:E80         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0											
Piesd         Digital Head, 5.0M 1/2 CMOS USB2.0 Digital Camera Built-in, Digital Pack School (1998)         Image: Comparison of the comparison		•	0	•	0	•	0	•	0	•	A53.2602-T
Light Split Fixed P20/E80         Dial Head, Sol M 12° CMOS USB2.0 Digital Camera Built-in, Uight Split Fixed P20/E80, With Holder For Pad         Dial Media	Head										
Digital head, 5.0M 1/2/CMOS USB2.0 Digital Camera Built-in, Upfi Split Fixed P20/E80, With Holder For Pad       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			0	0	0	0	0	0	0	0	A53.2602-5.0M
Light Split Fixed P20/E80, With Holder For Pad  VF10x18mm (High Eyepoint)  VF10x18mm With Pointer  VF16x18mm With Micrometer 0.1mm/180 Div. Diopter Adjustable WF10x18mm With Micrometer 0.1mm/180 Div. Diopter Adjustable UWF10x18mm With Micrometer 0.1mm/180 Div. Diopter Adjustable UWF10x18mm With Micrometer 0.1mm/180 Div. Diopter Adjustable UWF10x18mm With Micrometer 0.1mm/180 Div. Diopter Adjustable EVENUE Backward  EVENUE Backw											
WF10x20mm (High Eyepoint)         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         • <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>A53.2602-5.0MH</td>			0	0	0	0	0	0	0	0	A53.2602-5.0MH
WF10X/20mm (High Eyepoint)         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I<         I<<         I<<         I<         I<		•									A51 2602 1018
WF 16x/13mm         WF 10x/18mm With Dioter         0         0         0         0         0         0         0         0         0         0         A51.2602-1613           WF 10x/18mm With Micrometer 0.1mm*180 Div         0         0         0         0         0         0         0         0         A51.2605-1018D           Nosepice         Quadruple, Backward         0         0         0         0         0         0         0         0         0         0         A51.2605-1018D           Dijective         EPLAN 4/0.010,WD_=12.1mm         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0							•	-	•	•	
Eyepiece         WF10x/18mm With Micrometer 0.1 mm*180 Div         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			-	-		-					
WF10x/18mm With Micrometer 0.1mm*180 Div.         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o							-				
WF10x/18mm With Micrometer 0.1mm*180 Div, Diopter Adjustable         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o         o	J - 1							<u> </u>			
Adjustable         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0			0	0	0	0	0	0	0	0	A51.2005-1018
Nosepiece         Quadruple, Backward         Image: PLAN 4x/0.10, W.D.=12.1mm         Image: PLAN 1x/0.25, W.D.=4.14mm         Image: PLAN 1x/0.25, W.D.=4.14mm         Image: PLAN 1x/0.25, W.D.=4.14mm         Image: PLAN 1x/0.25, W.D.=0.58mm         Image: PLAN 1x/0.12, SL205-40           Objective         EPLAN 10x/0.25, W.D.=0.58mm         Image: PLAN 10x/0.25, W.D.=0.58mm         Image: PLAN 10x/0.125, SL205-40         A52.2605-10           PLAN 10x/0.125, SL01, W.D.=0.13mm         Image: PLAN 10x/0.125, SL205-40         Image: PLAN 10x/0.125, SL205-40         A52.2606-25           PLAN 10x/0.25, W.D.=4.44mm         Image: PLAN 10x/0.25, W.D.=4.46mm         Image: PLAN 10x/0.25, SL205-40         Image: PLAN 10x/0.25, SL205-40           Objective         PLAN 10x/0.25, SL01, W.D.=0.12mm         Image: PLAN 10x/0.15(S.W.D.=0.65mm         Image: PLAN 10x/0.15(S.W.D.=0.05mm         Image: PLAN 10x/0.15(S.W.D.=0.012mm         Image: PLAN 10x/0.15(S.W.D.=0.012mm         Image: PLAN 10x/0.25, SL205-40           PLAN 10x/0.15(S.W.D.=0.012mm         Image: PLAN 10x/0.15(S.W.D.=0.012mm         Image: PLAN 10x/0.15(S.W.D.=0.012mm         Image: PLAN 10x/0.15(S.V.D.=0.012mm         Image: PLAN 10x/0.25, W.D.=0.012mm         Image: PLAN 10x/0.15(S.V.D.=0.012mm         Image: PLAN 10x/0.15(S.V.D.=0.012mm         Image: PLAN 10x/0.15(S.V.D.=0.012mm         Image: PLAN 10x/0.125(S.O01.000         Image: PLAN 10x/0.15(S.V.D.=0.012mm         Image: PLAN 10x/0.125(S.O01.000         Image: PLAN 10x/0.125(S.O01.0000         Image: PLAN 10x/0.125(S.O01.0000		•	0	0	0	0	0	0	0	0	A51.2605-1018D
EPLAN 4x0.10 W D_=12.1mm         A52.2605-10           Objective         EPLAN 10x0.25,W.D_=0.18mm         A52.2605-10           Objective         EPLAN 10x0.07,W.D_=8.47mm         A52.2605-10           PLAN 2.50,07,W.D_=8.47mm         A52.2605-10           PLAN 2.50,07,W.D_=4.847mm         A52.2605-10           PLAN 2.50,07,W.D_=4.847mm         A52.2606-10           PLAN 2.50,07,W.D_=4.247mm         A52.2606-10           PLAN 2.50,040(5),W.D_=2.41mm         A52.2606-10           PLAN 10x0.25,W.D_=2.41mm         A52.2606-10           PLAN 10x0.125(S, OII),W.D_=0.12mm         A52.2606-100           PLAN 10x0.125(S, OII),W.D_=0.12mm         A52.2606-100           PLAN 10x0.125(S, OII),W.D_=0.12mm         A52.2606-100           PLAN 10x0.125(S, OII),W.D_=0.12mm         A52.2606-100           PLAN 10x0.125(S, OII),W.D_=0.12mm         A52.2601-10           Achromatic         Objective         A52.2601-10           Objective         A52.2601-10           Achromatic         Obv0.6(S), W.D_=0.17mm         A           Objective         A52.2601-40           Av0.01, W.D_=0.17mm         A         A52.2601-40           Av0.01, W.D_=0.17mm         A         A52.2601-40           Av0.01, W.D_=0.17mm         A         A		,	-	_	_	-	-	-	-	-	AE4 0040 NO2
Infinity Eplan       EPLAN 10x/0.25, W, D.=4, 14mm <ul> <li></li></ul>							•	•	•	•	
Objective         EPLAN 40x0.65(5), W. D.=0.58mm         Image: Constraint of the second secon				-							
EPLAN 100x/1 25(S, Oil), W.D.=0.19mm <ul> <li></li></ul>				-							
PLAN 2.5x/0.07, W.D.=8.47mm         0         0         0         0         0         0         A52.2606-2.5           PLAN 10x/0.25, W.D.=4.64mm         0         0         0         0         0         0         0         A52.2606-10           PLAN 10x/0.25, W.D.=0.65mm         0         0         0         0         0         0         A52.2606-100           PLAN 100x/1.25(S,OI), W.D.=0.12mm         0         0         0         0         0         A52.2606-100           PLAN 100x/1.25(S,OI), W.D.=0.12mm         0         0         0         A52.2606-100           PLAN 100x/1.25(S,OI), W.D.=0.12mm         0         0         0         A52.2601-100           Actoromatic         20x/0.40, W.D.=17.5mm         0         A52.2601-100         A52.2601-100           Actoromatic         20x/0.40, W.D.=0.17mm         0         0         0         A52.2601-100           Objective         40x/0.6(S), W.D.=0.47mm         0         0         0         A52.2601-100           Objective         20x/0.40, W.D.=0.07mm         0         0         0         A52.2601-100           00x/1.25(S,O), W.D.=0.07mm         0         0         0         0         0         0         A52.2603-100											
PLAN 4x/0.10.W.D.=12.1mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				-							
Infinity Plan       PLAN 10x/0.25. W. D.=4.64mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·									
Infinity Plan       PLAN 20x/0.40(S).W.D.=2.41mm <ul> <li></li></ul>											
Objective       PLAN 40% 0.66(S).W D.=0.65mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			0		•	•					
PLAN 60x/0.80(S).W. D.=0.33mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <t< td=""><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td><td></td></t<>			0	0	0	0					
PLAN 100x/1.25(S, Oil).W. D.=0.12mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			0	0	•	•					
PLAN 100x/1.15(S,Water).W.D.=0.19mm       o       o       o       o       o       o       o       A52.2601-100W         Achromatic       20x/0.40, W.D.=6.5mm       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I			0	0	0	0					
4x/0.1, W.D.=18.6mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			0	0	•	•					A52.2606-100
Achromatic       10x/0.25, W.D.=6.5mm       A52.2601-10         Achromatic       20x/0.40, W.D.=1.75mm       A52.2601-20         40x/0.6(S), W.D.=0.47mm       A       A52.2601-20         40x/0.6(S), W.D.=0.10mm       A       A       A52.2601-40         10x/1.25(S,O), W.D.=0.07mm       A       A52.2601-40         10x/1.25(S,O), W.D.=0.07mm       A       A52.2601-40         10x/0.40, W.D.=5.65mm       A       A52.2603-40         10x/0.25, W.D.=5.65mm       A       A52.2603-40         10x/0.25, W.D.=0.07mm       A       A52.2603-40         10x/0.25, W.D.=5.65mm       A       A52.2603-40         10x/0.25, W.D.=0.85mm       A       A52.2603-40         10x/1.25(S,O), W.D.=0.07mm       A       A52.2603-40         10x/1.25(S,O), W.D.=0.07mm       A       A52.2603-40         Mochanical Stage Size 145x140mm, Travel Range 76x52mm,       A       A52.2603-40         Mochanical Stage Size 145x140mm, Travel Range 76x52mm,       A       A54.2601-S04         Stade 0.1mm, Double Slide Holder       A       A       A54.2601-S04         Norking Stage       Coaxial Coarse & Fine Focusing, Coarse Focusing Travel       A       A       A54.2601-S04         Rackless (Integrated) Stage, Size 140x135mm       Travel		· · · · ·	0	0	0	0					A52.2606-100W
Achromatic       20x/0.40, W.D.=1.75mm       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       <							•	•	0	0	A52.2601-4
Objective       40x/0.6(S), W.D.=0.47mm       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A							•	•	0	0	A52.2601-10
60x/0.80(S), W.D.=0.10mm       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>A52.2601-20</td>							0	0	0	0	A52.2601-20
100x/1.25(S,O), W.D.=0.07mm       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I	Objective	40x/0.6(S), W.D.=0.47mm					•	•	0	0	A52.2601-40
4x/0.1, W.D.=14.5mm       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A		60x/0.80(S), W.D.=0.10mm					0	0	0	0	A52.2601-60
10x/0.25, W.D.=5.65mm       Image: 20x/0.40, W.D.=0.07mm       Image: 20x/0.40, W.D.=0.07mm <t< td=""><td></td><td>100x/1.25(S,O), W.D.=0.07mm</td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td>0</td><td>0</td><td>A52.2601-100</td></t<>		100x/1.25(S,O), W.D.=0.07mm					•	•	0	0	A52.2601-100
Plan Objective       20x/0.40, W.D.=5.65mm       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I		4x/0.1, W.D.=14.5mm					0	0	•	•	A52.2603-4
40x/0.6(S), W.D.=0.85mm       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td></td> <td>10x/0.25, W.D.=5.65mm</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>•</td> <td>•</td> <td>A52.2603-10</td>		10x/0.25, W.D.=5.65mm					0	0	•	•	A52.2603-10
100x/1.25(S,O), W.D.=0.07mm       Image: Association         Working Stage       Mechanical Stage Size 145x140mm, Travel Range 76x52mm, Scale 0.1mm, Double Slide Holder       Image: Association         Rackless (Integrated) Stage, Size 140x135mm, Travel Range 75x35mm, Double Slide Holder       Image: Association	Plan Objective	20x/0.40, W.D.=5.65mm					0	0	0	0	A52.2603-20
100x/1.25(S,O), W.D.=0.07mm       Image: Association         Working Stage       Mechanical Stage Size 145x140mm, Travel Range 76x52mm, Scale 0.1mm, Double Slide Holder       Image: Association         Rackless (Integrated) Stage, Size 140x135mm, Travel Range 75x35mm, Double Slide Holder       Image: Association	-	40x/0.6(S), W.D.=0.85mm					0	0	٠	•	A52.2603-40
Mechanical Stage Size 145×140mm, Travel Range 76×52mm, Scale 0.1mm, Double Slide HolderA 54.2601-S04Morking StageStage, Size 140×135mm, Travel Range 75×35mm, Double Slide Holderoooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooo							0	0	•	•	A52.2603-100
Scale 0.1mm, Double Slide HolderA54.2601-S04Rackless (Integrated) Stage, Size 140×135mm, Travel Range 75x35mm, Double Slide Holder000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000		Mechanical Stage Size 145×140mm, Travel Range 76×52mm,									
Working Stage Rackless (Integrated) Stage, Size 140×135mm, Travel Range 75x35mm, Double Slide HolderImage: Size 140×135mm, Travel Range 75x35mm, Double Slide HolderImage: Size 140×135mm, Travel Range 75x35mm, Double Slide HolderImage: Size 140×135mm, Travel Range 8Image: Size 140×135mm, Travel Range 8Image: Size 140×135mm, Spiral Up/Down, 8Image: Size 140×135mm, Size 14		Scale 0.1mm Double Slide Holder	•	•	•	•	•	•	•	•	A54.2601-S04
75x35mm, Double Slide HolderImage: Condenser N.A.1.25, Iris Diaphragm, Spiral Up/Down, With Filter HolderImage: AssociationAssociationFocusingCoaxial Coarse & Fine Focusing Coarse Focusing Travel Range: 25mm, Fine Focusing Scale 2µm/DivisionImage: Coarcia Coarse Scale 2µm/DivisionImage: Coarcia Coarse Scale 2µm/DivisionImage: Coarcia Coarse Scale 2µm/DivisionImage: Coarcia Coarse Scale 2µm/DivisionImage: Coarcia Coarce Scale 2µm/DivisionImage: Coarcia Coarce Scale 2µm/DivisionImage: Coarcia Coarce Scale 2µm/DivisionImage:	Working Stage										4540004 040
CondenserAbbe Condenser N.A.1.25, Iris Diaphragm, Spiral Up/Down, With Filter HolderAbbe Condense AdjustableAbbe Condense Adjusta			0	0	0	0	0	0	0	0	A54.2601-S12
CondenserWith Filter HolderAs6.2614-09FocusingCoaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 25mm, Fine Focusing Scale 2µm/DivisionAs6.2614-09Light Source3W LED Illumination With Aspheric Collector, Wide Range Voltage: 100V~240VAs6.2612-3W1.0x C-Mount Focus AdjustableOOOOAs55.2601-100.5x C-Mount Focus AdjustableOOOOAs55.2601-050.75x C-Mount Focus AdjustableOOOOAs55.2601-75Digital Eyepiece Adapter, Dia.23.2mm/25mmOOOOAs55.2601-75Dark FieldDark Field Ring, For 4x~40x ObjectiveOOOOOAs55.2601-83AttachmentWire Winding DeviceOOOOOAs59.2601-83PackageCarton Size 345x260x455mm, 1 Unit/CtnOOOOOOAs50.2602WeightGross Weight 7.0kgs, Net Weigth 5.5kgsOOOOOOOO											
FocusingRange: 25mm, Fine Focusing Scale 2µm/DivisionImage: 100 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 24	Condenser		•	•	•	•	•	•	•	•	A56.2614-09
FocusingRange: 25mm, Fine Focusing Scale 2µm/DivisionImage: 100 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240 - 24											
Light Source3W LED Illumination With Aspheric Collector, Wide Range Voltage: 100V~240VImage: 100V~40VImage: 100V~4	Focusing		•	•	•	•	•	•	•	•	
Light Source       Voltage: 100V~240V       A56.2612-3W         Adapter       1.0x C-Mount Focus Adjustable       0       0       0       0       0       0       A55.2601-10         Adapter       0.5x C-Mount Focus Adjustable       0       0       0       0       0       0       A55.2601-05         0.5x C-Mount Focus Adjustable       0       0       0       0       0       0       0       A55.2601-05         0.75x C-Mount Focus Adjustable       0       0       0       0       0       0       0       A55.2601-75         Digital Eyepiece Adapter, Dia.23.2mm/25mm       0       0       0       0       0       0       0       A55.2601         Dark Field       Dark Field Ring, For 4x~40x Objective       0       0       0       0       0       0       A55.2610         Dark Field       Dark Field Ring, For 4x~40x Objective       0       0       0       0       0       0       A55.2601-83         Polarizing       Analyzer + Polarizer Set       0       0       0       0       0       0       0       A55.2601-B3         Attachment       Wire Winding Device       0       0       0       0       0       0											
Adapter1.0x C-Mount Focus AdjustableImage: Comparison of the text of	Light Source		•	•	•	•	•	•	•	•	A56.2612-3W
Adapter0.5x C-Mount Focus Adjustable 0.75x C-Mount Focus Adjustable Digital Eyepiece Adapter, Dia.23.2mm/25mm0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 <td></td> <td>•</td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>A55 2601-10</td>		•		0		0		0		0	A55 2601-10
Adapter 0.75x C-Mount Focus Adjustable Digital Eyepiece Adapter, Dia.23.2mm/25mmoooooooA55.2601-75Dark Field PolarizingDark Field Ring, For 4x~40x ObjectiveoooooooA55.2610Polarizing Analyzer + Polarizer SetooooooooA55.2611-BAttachment Wire Winding DeviceWire Winding DeviceoooooooA55.2601-B3Package WeightCarton Size 345x260x455mm, 1 Unit/CtnooooooooA50.2602WeightGross Weight 7.0kgs, Net Weigth 5.5kgsoooooooooo		-	-								
Digital Eyepiece Adapter, Dia.23.2mm/25mmImage: Constraint of the systemImage: Constraint of											
Dark FieldDark Field Ring, For 4x~40x Objectiveooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooo <td></td> <td>•</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		•	-						-		
PolarizingAnalyzer + Polarizer Setoooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooo <t< td=""><td></td><td></td><td>-</td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			-		_						
AttachmentWire Winding Device••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• </td <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td>		· · ·				<u> </u>	<u> </u>				
PackageCarton Size 345×260×455mm, 1 Unit/CtnWeightGross Weight 7.0kgs, Net Weigth 5.5kgs	¥			-	-	- 0	- 0	- 0	0		
Weight Gross Weight 7.0kgs, Net Weigth 5.5kgs		· · · · · · · · · · · · · · · · · · ·					•				A30.2002
	¥										
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## A12.2601 Laboratory Biological Microscope



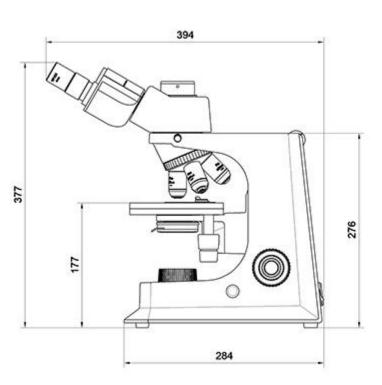


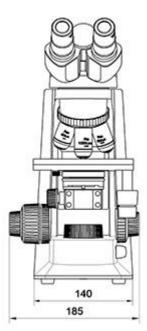


Entry Level Laboratory Microscope With Full Range Upgrade Extension Can Use 40x LWD Infinity Plan Objective W.D.=3.0m To Avoid Contaminated By Cedar Oil Creative 100x Water Objective Instead Of I00x Oil Objective For Easy Use Without Oil High Rigidity Body Structure Design Supply High Steady & Easy Handle Different Color Available To Customize Your Model!

#### A12.2601 Biological Microscope Size(mm)









Different Color Available To Customrize Your Model!

140000	A42 2004 Dielemiest Missesson - Onesitiest		A.75		DT		07		DT	
Items		-A	-AT	-B	-81	-C	-01	-D	יט-	Cata. No.
	Seidentopf Binocular Head Inclined 30°,Rotatable 360°,	•	0	•	0	•	0	•	0	A53.2621-B
	Interpupilary Distance 48-75mm									
	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°,	0	•	0	•	0	•	0	•	A53.2621-T
	Interpupilary Distance 48-75mm, Light Split Fixed P20:E80					-				154 0000 4040
	WF10x/18mm	••	••							A51.2602-1018
	WF10X/20mm (High Eyepoint)			••	••	••	••	••		A51.2602-1020
	Quadruple, Backward	•	•	•	•	•	•	•		A54.2610-N734
•	Quintuple, Backward	0	0	0	0	0	0	0	0	A54.2610-N735
	4x/0.1, W.D.=18.6mm	•	•							A52.2601-4
	10x/0.25, W.D.=6.5mm	•	•							A52.2601-10
	20x/0.40, W.D.=1.75mm	•	•							A52.2601-20
	40x/0.6(S), W.D.=0.47mm	•	•							A52.2601-40
	60x/0.80(S), W.D.=0.10mm	0	0							A52.2601-60
	100x/1.25(S,O), W.D.=0.07mm	0	0							A52.2601-100
	4x/0.1, W.D.=14.5mm			•	•					A52.2603-4
Plan	10x/0.25, W.D.=5.65mm			•	•					A52.2603-10
	20x/0.40, W.D.=5.65mm			0	0					A52.2603-20
Objective	40x/0.6(S), W.D.=0.85mm			•	•					A52.2603-40
	100x/1.25(S,O), W.D.=0.07mm			•	•					A52.2603-100
	EPLAN 4x/0.10,W.D.=12.1mm					•	•			A52.2605-4
Infinity E-	EPLAN 10x/0.25,W.D.=4.14mm					•	•			A52.2605-10
,	EPLAN 20x/0.4					0	0			A52.2605-20
	EPLAN 40x/0.65(S),W.D.=0.58mm					•	•			A52.2605-40
-	EPLAN 100x/1.25(S, Oil),W.D.=0.19mm					•	•			A52.2605-100
	PLAN 2.5x/0.07,W.D.=8.47mm							0	0	A52.2606-2.5
	PLAN 4X/0.10.W.D.=12.1mm							•		A52.2606-4
	PLAN 10X/0.25.W.D.=4.64mm							•		A52.2606-10
Infinity	PLAN 20X/0.40(S).W.D.=2.41mm					-		0		A52.2606-20
Plan	PLAN 40X/0.66(S).W.D.=0.65mm							•		A52.2606-40
	PLAN 60X/0.80(S).W.D.=0.33mm							0		A52.2606-60
	PLAN 100X/1.25(S,Oil).W.D.=0.12mm							•		A52.2606-100
	PLAN 100X/1.15(S,Water).W.D.=0.19mm							0		A52.2606-100
	Mechanical Stage Size: 145 mm×140mm, Travel:									A32.2000-10011
	76mmX52mm, Scale: 0.1mm, Double Slide Holder	•	•	•	•	•	•	•	•	A54.2601-S04
	Rackless (Integrated) Stage, Size 140×135mm,					-				
0	Travel Range 75×35mm, Double Slide Holder	0	0	0	0	0	0	0	0	A54.2601-S12
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel									
Encliging	Range: 26mm, Fine Focusing Travel Range: 2µm/Division	•	•	•	•	•	•	•	•	
	Abbe Condenser N.A.1.25, Iris Diaphragm, Rack & Pinion									
I ANADNEDI	Up/Down, With Filter Holder	•	•	•	•	•	•	•	•	A56.2614-C06b
		-	-	-	-	-	-	-	-	
	3W-LED Illumination Systems	•	•	•	•	•	•	•		A56.2613-3W
	12V/20W Halogen Lamp	0	0	0	0	0	0	0		A56.2650-20W
	6V/30W Halogen Lamp	0	0	0	0	0	0	0	0	A56.2650-30W
Field Diaphragm	Upgrade To Kohler Illumnation	0	0	0	0	0	0	0	0	A56.2615-S
	Dia.45mm, Blue	0	0	0	0	0	0	0	0	A56.2616-45B
	Dia.45mm, Green	0	0	0	0	0	0	0	0	A56.2616-45G
	Dia.45mm, Yellow	0	0	0	0	0	0	0		A56.2616-45A
	אטווסד, ו כווטיי								0	AJU.2010-4JA

Dark Field	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	0	0	0	0	0	0	0	A5D.2610-S
Polarizing	Analyzer + Polarizer Set	0	0	0	0	0	0	0	0	A5P.2601-S
	Infinity Plan Phase Contrast Objective 10x + Phase									
	Contrast Slide 10x + Phase Contrast Condenser +	0	0	0	0	0	0	0	0	A5C.2601-10
	Telescope 11x + Green Filter									
	Infinity Plan Phase Contrast Objective 20x + Phase									
	Contrast Slide 20x + Phase Contrast Condenser +	0	0	0	0	0	0	0	0	A5C.2601-20
	Telescope 11x + Green Filter									
	Infinity Plan Phase Contrast Objective 40x + Phase									
Phase	Contrast Slide 40x + Phase Contrast Condenser +	0	0	0	0	0	0	0	0	A5C.2601-40
Contrast	Telescope 11x + Green Filter						Ũ			100.2001 10
Contrast	Infinity Plan Phase Contrast Objective 100x + Phase									
	Contrast Slide 100x + Phase Contrast Condenser +	0	0	0	0	0	0		0	A5C.2601-100
		0	0	0	0	0	0	0		ASC.2001-100
	Telescope 11x + Green Filter								<u> </u>	
	Turret Phase Contrast Attachment									
	Infinity Plan Phase Contrast Objective 10x20x40x100x,	0	0	0	0	0	0	0	0	A5C.2603-S
	Turret Phase Contrast Condenser 5-Holes, Telescope						Ũ			100.2000 0
	11x, Green Filter									
	Upgrade to A16.2601-B2/T2 Fluorescence Microscope									
	With:									
	B,G China Fluorescent Set									
	100W Mercury Lamp House									
	100W Mercury Power Box, Digital Disp.					0	0			A5F.2601-2
	6 Holes Disc Fluorescent Unit						0			
	Ultraviolet Protection Barrier									
	Centering Objective									
	China 100W Mercury Lamp 2 pcs								<b> </b>	
	Upgrade to A16.2601-B4/T4 Fluorescence Microscope									
	With:									
	B,G,U,UV China Fluorescent Set									
	100W Mercury Lamp House									
	100W Mercury Power Box, Digital Disp.					0	0			A5F.2601-4
	6 Holes Disc Fluorescent Unit									
luorescen	Ultraviolet Protection Barrier									
ce Unit	Centering Objective									
	China 100W Mercury Lamp 2 pcs									
	Upgrade to A16.2601-LB2/LT2 Fluorescence Microscope									
	With:									
	B,G China Fluorescent Set									
	6 Holes Disc Fluorescent Unit						0			A5F.2602-2
						0	U			AU 2002-2
	5W LED Lamp House									
	5W LED Power Box									
	Ultraviolet Protection Barrier							<u> </u>	<u> </u>	
	Upgrade to A16.2601LB4/LT4 Fluorescence Microscope									
	With:									
	B,G,U,UV China Fluorescent Set									
	6 Holes Disc Fluorescent Unit					0	0			A5F.2602-4
	5W LED Lamp House									
	5W LED Power Box									
	Ultraviolet Protection Barrier									
	C-Mount 0.5x, Focus Adjustable	0	0	0	0	0	0	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0	0	0	0	0	0	0		A55.2601-05
Adapter						$\square$	0			
-	C-Mount1.0x, Focus Adjustable									A55.2601-10
N 4'	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	-		-						A55.2610
Mirror	Reflecting Mirror & Holder	0	0	0	0	0	0	0		A56.2601
	Wire Winding Device	0	0	0	0	0	0	0	0	A50.2602-S
ackage	Carton Size 390×280×450mm, 1 Unit/Ctn									

## A12.2603 Laboratory Biological Microscope



OPTO-EDU



Best Lab Microscope With Modular Structure Design To Upgrade Easily Even After Order Large Size Head With Eyepiece Tube Dia.30mm 360 Degree Rotatable. Super Wide Field SWF10x/22mm Eyepiece Dia.30mm Diopter Adjustable Rackless Large Mechanical Stag 182x140mm/77x52m With Double Slide Holder Swing Out Condenser N.A. 0.9/0.13 + High Brightness 6V30W Halogen Koehler Illumination

Items	A12.2603 Laboratory Biological Microscope Specification	-B	-т	Cata. No.
A12.2603 Upgarde From A12.2602	Head Upgrade To Large Size With Eyepiece Tube Dia.30mm Eyepiece Upgrade To Dia.30mm Diopter Adjustable Standard Objectives Upgrade To 5 pcs With 20x Working Stage Upgrade To Large Size Rackless 182x140mm Condenser Abbe N.A.1.25 Upgrade To Swing Out Condenser N.A.0.9/0.13 Light Source Upgrade to 6V30W High Brightness + Blue Filter			
	Seidentopf Binocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm	•	0	A53.2623-B
Head	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm	0	•	A53.2623-T
Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	••	••	A51.2621-1022
Nosepiece	Quintuple	•	•	A54.2610-N01
	PLAN 2.5X/0.07,W.D.=8.47mm	0	0	A52.2606-2.5
	PLAN 4X/0.10,W.D.=12.10mm	•	•	A52.2606-4
	PLAN 10X/0.25,,W.D.=4.64mm	•	•	A52.2606-10
Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	•	A52.2606-20
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	•	•	A52.2606-40
	PLAN 60X/0.80(S),W.D.=0.33mm	0	0	A52.2606-60
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	•	•	A52.2606-100
	PLAN 100X/1.15(S,Water),W.D.=0.19mm	0	0	A52.2606-100W
Marking Stage	Rackless (Integrated) Mechanical Stage, Size 182×140mm, Travel Range 77×52mm, Double Slide Holder	•	•	A54.2601-S10
Working Stage	Mechanical Stage Size 175 mm×145mm, Travel 76mmX52mm, Scale: 0.1mm, Double Slide Holder	0	0	A54.2601-S01

Focusing	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 22mm, Fine Focusing Div. 0.002mm	•	•	
Condenser	Swing-out Condenser,N.A.0.9/0.13,Iris Diaphragm	•	•	A56.2614-07a
	Transmit Light 6V30W Halogen	•	•	A56.2613-
Illumination	Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	•		6V30W
marmilation	Transmit Light 3W LED	0	0	A56.2651-3W
	Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	-		
Field Diaphragm	For Kohler Illumnation	•	•	A56.2615-BK
	ECO, Auto Power Off System. Power Off Automatically Upon User Leaving 10 Minutes,			
Power	Power Off Automatically Upon User Leaving 10 Minutes, Power On Automatically Upon User Approaching Detected,	0	0	A56.2660
	This Function Can Be Shut Down Manually			
	Dia.45mm, Blue	•	•	A56.2616-45B
Filter	Dia.45mm, Green	0		A56.2616-45G
	Dia.45mm, Yellow	0		A56.2616-45A
	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0		A5D.2610-BK
Dark Field	Dark Field Condenser, Immersion, N.A.1.3, For 100x Objective			A5D.2610-BKV
Polarizing	Analyzer + Polarizer Set	0	0	A5P.2601-BK
	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide 10x + Phase	_		450 0000 40
	Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2602-10
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide 20x + Phase	0		A5C.2602-20
	Contrast Condenser + Telescope 11x + Green Filter	0	0	AJC.2002-20
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide 40x + Phase	0	0	A5C.2602-40
Phase Contrast	Contrast Condenser + Telescope 11x + Green Filter	0		700.2002 +0
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide 100x +	0	0	A5C.2602-100
	Phase Contrast Condenser + Telescope 11x + Green Filter	-	_	
	Turret Phase Contrast Attachment			
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret Phase Contrast	0	0	A5C.2603-BK
	Condenser 5-Holes, Telescope 11x, Green Filter			
	Upgrade to A16.2604-T2 Fluorescence Microscope With A5F.2601-2: B,G China Fluorescent Set			
	100W Mercury Lamp House			
	100W Mercury Power Box, Digital Disp.			<b>.</b>
	6 Holes Disc Fluorescent Unit		0	A5F.2601-2
	Ultraviolet Protection Barrier			
	Centering Objective			
	China 100W Mercury Lamp 2 pcs			
	Upgrade to A16.2604-T4 Fluorescence Microscope With A5F.2601-4:			
	B,G,U,UV China Fluorescent Set			
	100W Mercury Lamp House			
	100W Mercury Power Box, Digital Disp.		0	A5F.2601-4
	6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier			
Fluorescence	Centering Objective			
	China 100W Mercury Lamp 2 pcs			
	Upgrade to A16.2604-LT2 Fluorescence Microscope With A5F.2602-2:			
	B,G China Fluorescent Set			
	6 Holes Disc Fluorescent Unit			
	5W LED Lamp House		0	A5F.2602-2
	5W LED Power Box			
	Ultraviolet Protection Barrier			
	Upgrade to A16.2604-LT4 Fluorescence Microscope With A5F.2602-4:			
	B,G,U,UV China Fluorescent Set			
	6 Holes Disc Fluorescent Unit		0	A5F.2602-4
	5W LED Lamp House			
	5W LED Power Box			
	Ultraviolet Protection Barrier			AFE 2604 OF
	C-Mount 0.5x, Focus Adjustable	0		A55.2601-05
Adapter	C-Mount 0.75x, Focus Adjustable	0		A55.2601-75 A55.2601-10
	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0		A55.2601-10 A55.2610
Package	Carton Size 520×475×285mm, 1 Unit/Ctn	0		733.2010
Weight	Gross Weight: 12 kgs, Net Weight: 10 kgs			
vergin	Is Standard outfits, "o" Is Optional Accessories			

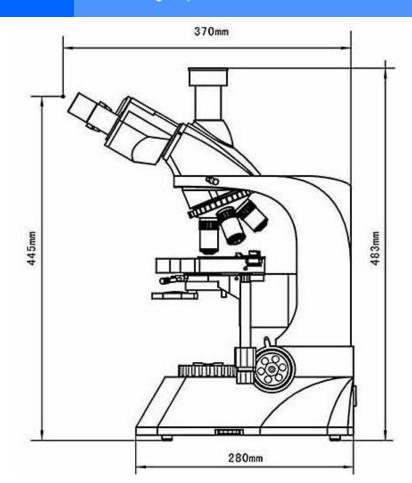
## A12.0204 Laboratory Biological Microscope

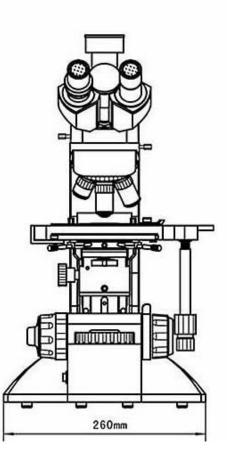




Infinity Plan Achromatic 4x10x 40x100x

Infinity Optical System, With Infinity Plan Achromatic Objectives Large Size Double Layer Mechanical Stage 210\*140mm/75\*50mm Quadruple & Quintuple Ball Bearing Nosepiece Available Kohler Illumination 6V30W Halogen Lamp, Brightness Adjustable Full Range Optional Function: Dark Field, Polarizing, Phase Contrast





1

	A12.0204 Laboratory Biological Microscope	Α	В
Optical System	Infinity Optical System	•	•
Eyepieces Tube	Trinocular, Inclination 30°, Rotatable 360°, Interpapillary 53~75mm, Left Side Eyepiece Tube Diopter Adjustable ±5°, Switch E100:P0/E0:P100	٠	•
Eyepiece	WF10x/22mm	••	••
	PL4x/0.10, W.D.21mm	٠	•
Eyepieces TubeTrinocular, Inclination 30°, Rotatable 360°, Interpar Side Eyepiece Tube Diopter Adjustable ±5°, SwitchEyepieceWF10x/22mmInfinity Plan Achromatic Objective:PL4x/0.10, W.D.21mm PL10x/0.25, W.D. 5.0mm PL20x/0.40, W.D.8.8mm PL40x/0.65, W.D. 0.66mm (S) PL100x/1.25, W.D.0.36mm (S,O)NosepieceQuadruple (Backward ball bearing inner locating) Quintuple (Backward ball bearing inner locating)Working StageDouble Layer Mechanical Stage 210*140mm, Movid Stopper, Minimum Division 0.002mm	PL10x/0.25, W.D. 5.0mm	•	•
	PL20x/0.40, W.D.8.8mm	0	•
	PL40x/0.65, W.D. 0.66mm (S)	•	•
	PL100x/1.25, W.D.0.36mm (S,O)	•	•
Neseriese	Quadruple (Backward ball bearing inner locating)	•	0
inosepiece	Quintuple (Backward ball bearing inner locating)	0	•
Working Stage	Double Layer Mechanical Stage 210*140mm, Moving Range 75*50mm	•	•
Focusing	Coaxial Coarse & Fine Focus Knob, With Tension Adjustable And Limit Stopper, Minimum Division 0.002mm	٠	•
Condenser	Abbe Condenser N.A.1.25, Rack & Pinion Height Adjustable	•	•
Light Source	Kohler Illumination, 6V30W Halogen Lamp, Brightness Adjustable, Light Collector With Iris Diaphragm	٠	•

A12.0204 Laboratory Biological Microscope Optional Accessories									
Eyepiece	Recital Eyepiece, WF10x/22mm, Micrometer Div 0.1mm	A51.0205-G10B							
Objective	Infinity Plan Achromatic PL20x/0.40, W.D.8.8mm	A52.0206-20							
Objective:	Infinity Plan Achromatic PL60x/0.85, W.D.0.25mm	A52.0206-60							
Filter	Green Filter	A56.0209-02							
FIILEI	Yellow Filter	A56.0209-03							
	Centering Telescope	A5C.0212-2							
	Infinity Plan Phase Contrast Objective 10x/0.25 PHP	A5C.0234-P10							
	Infinity Plan Phase Contrast Objective 20x/0.40 PHP, Spring	A5C.0234-P20							
	Infinity Plan Phase Contrast Objective 40x/0.65 PHP, Spring	A5C.0234-P40							
Phase Contrast	Infinity Plan Phase Contrast Objective 100x/1.25 PHP, Spring, Oil	A5C.0234-P100							
	Small Turret Phase Contrast Condenser	A5C.0210-1							
	BigTurret Phase Contrast Condenser	A5C.0210-4							
	Flashboard Phase Contrast Condenser With Slides *4	A5C.0210-2							
	Pullboard Phase Contrast Condenser With Sildes * 2	A5C.0210-3							
Dorth Field	Dark Field Condenser, Dry	A5D.0210-D							
Dark Field	Dark Field Condenser, Immersion	A5D.0210-I							
Polarizing	Simple Polarizing Set Polarizer, 360° Rotatable, Used On Base Light Collector Analyizer Slide, Inserted Into Hole On Nosepiece	A5P.0201-2							
	0.5x C-Mount	A55.0202-4							
Adamtan	1.0x C-Mount	A55.0202-2							
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	A55.0202-3							
	Digital SLR Camera Adapter for Canon EF Series	A55.0204-01							

## A12.0205 Laboratory Biological Microscope

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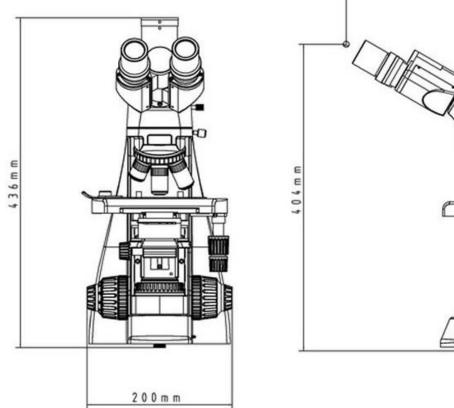


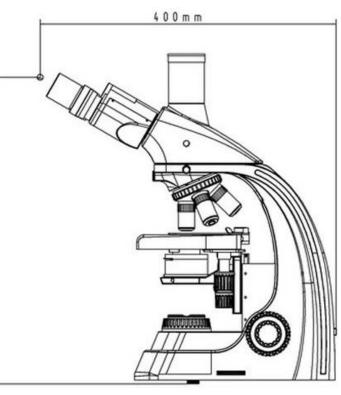
360° Rotatable Head Adaptor For Easy Viewing Height Adjustable



C.

Laboratory Research Level Biological Microscope Binocular & Trinocular Head Light Split Switch E100:P0/E0:P100 Infinity Plan Achromatic Objective 4x,10x,40x, 100x 3W LED High Brightness Light Source Brightness Adjustable Upgradeable To Dark Field, Polarizing, Phase Contrast Function





	A12.0205 Laboratory Biological Microscope	В	т
Optical System	Infinity Optical System	•	•
	Binocular Head, 30° Inclined, Interpupillary Distance 55~75mm, Both Eyepiece Tube Diopter Adjustable +/-5°, 360° Rotatable Head Adaptor For Easy Viewing Height Adjustable	•	
Head	Trinocular Head, 30° Inclined, Interpupillary Distance 55~75mm, Both Eyepiece Tube Diopter Adjustable +/-5°, Switch E100:P0/E0:P100, 100% Light Pass To Photo Tube, 360° Rotatable Head Adaptor For Easy Viewing Height Adjustable		•
Eyepiece	Wide Field Eyepiece WF10x/22mm	•	•
Nosepiece	Backward Quadruple Nosepiece, Ball Bearing Inner Locating	•	•
	Infinity Plan Achromatic Objective:	•	•
		•	•
Objective		•	•
		•	•
		•	•
Working Stage	Rackless Double Layer Mechanical Stage 180*150mm, Moving Range	•	•
Focusing	Coaxial Coarse & Fine Focus Knob, With Tension Adjustable And Limit Stopper, Minimum Division 0.002mm	•	•
Condenser	Abbe Condenser N.A.1.25, Rack & Pinion Height Adjustable	•	•
Light Source	High Light 3W LED, Brightness Adjustable	•	•
	Optional Accessories	Cata	. No.
Eyepiece	Recital Eyepiece, WF10x/22mm, Micrometer Div 0.1mm	A51.020	5-G10B
Ohiective		A52.020	
-		A52.020	
Nosepiece		A54.020	
		A5C.021	
		A5C.023	
Phase Contrast		A5C.023	
		A5C.023	
		A5C.023 A5C.021	
		A30.021	0-12
Polorizing			1_2
Optical System         Infinity Optical System           Binocular Head, 30° Inclined, Interpupillary Distance 55–75mm, Both Eyepiece Tube Diopter Adjustable +/-5°, 360° Rotatable Head Adaptor For Easy Viewing Height Adjustable           Head         Trinocular Head, 30° Inclined, Interpupillary Distance 55–75mm, Both Eyepiece Tube Diopter Adjustable +/-5°, Switch E100:P0/E0:P100, 11 Light Pass To Photo Tube, 360° Rotatable Head Adaptor For Easy Vi- Height Adjustable           Eyepiece         Wide Field Eyepiece WF10x/22mm           Nosepiece         Backward Quadruple Nosepiece, Ball Bearing Inner Locating           Infinity Plan Achromatic Objective:         PL4x/0.10, W.D.21mm           Dbjective         PL10x/0.25, W.D. 0.66mm, Spring           PL10x/0.25, W.D. 0.36mm, Spring, Oil         Rackless Double Layer Mechanical Stage 180°150mm, Moving Rang 75°50mm           Focusing         Tooxial Coarse & Fine Focus Knob, With Tension Adjustable And Lim Stopper, Minimum Division 0.002mm           Condenser         Abbe Condenser N.A.1.25, Rack & Pinion Height Adjustable           Light Source         High Light 3W LED, Brightness Adjustable           Dijective         Infinity Plan Achromatic Objective PL20x/0.40, W.D.8.8mm           Infinity Plan Achromatic Objective PL00x/0.85, W.D.0.25mm           Vosepiece         Quintuple Nosepiece           Centering Telescope         Infinity Plan Phase Contrast Objective 10x/0.25 PHP           Infinity Plan Phase Contrast Objective 0x/0.40 PHP, Spri		1-2	
		A5D.021	1-D
Dark Field	· · ·	A5D.021	
		A56.020	
Filter		A56.020	
		A56.020	
		A55.020	
	•	A55.020	
Adapter	•	A55.020	
'	•	A55.020	2-03

## A12.0206 Laboratory Biological Microscope

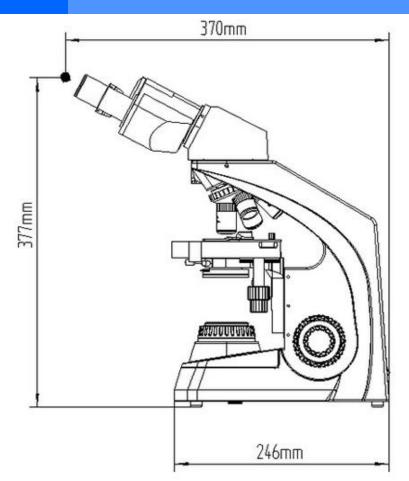
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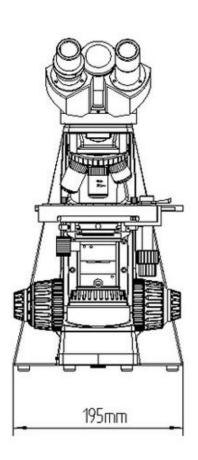




63

Binocular, Trinocular Head Available To Connect Digital Camera Total Magnification Upto 1500x With Optional Eyepiece WF15x Double Layer Mechanical Stage, Size 125x135mm, Moving Range 35x75mm 1W LED Light Source Brightness Adjustable Upgradeable To Dark Field, Phase Contrast Function





	A12.0206 Laboratory Biological Microscope	-B	-T
	Binocular, 30° Inclined, Interpapillary Distance 48~75mm, Left Eyepiece Tube Diopter Adjustable +/-5°	•	
Head	Trinocular, 30° Inclined, Interpapillary Distance 48~75mm, Left Eyepiece Tube Diopter Adjustable +/-5°, Switch E100:P0/E0:P100, 100% Light Pass To Photo Tube		•
Eyepiece	WF10x/18mm	•	•
Nosepiece	Backward Quadruple Nosepiece, Ball Bearing Inner Locating	•	•
	4x/0.10, W.D.37.38mm	•	•
Achromatic	10x/0.25, W.D. 6.61mm	•	•
Objective	40x/0.65, W.D. 0.60mm, Spring	•	•
	100x/1.25, W.D.0.194mm, Spring, Oil	•	•
Working Stage	Double Layer Mechanical Stage, Size 125x135mm, Moving Range 75x35mm	•	•
Focusing	Coaxial Coarse & Fine Focus System, With Tensional Adjustable And Up Stop, Fine Focusing Minimum Division 2um, Moving Range 0~20mm	•	•
Light Source	1W LED light, Brightness Adjustable	•	•

# **Optional Accessories**

A12.0206 L	aboratory Biological Microscope Optional Accessories	Cata. No.
Eyepiece	WF15x/11mm	
Nosepiece	Backward Quintuple Nosepiece, Ball Bearing Inner Locating	
Achromatic Objective	20x/0.40, W.D. 1.85mm	
Actionatic Objective	60x/0.85, W.D. 0.2mm, Spring	
	4x/0.10, W.D.17.9mm	A52.0203-4
	10x/0.25, W.D. 8.8mm	A52.0203-10
Plan Achromatic	20x/0.40, W.D. 8.6mm	A52.0203-20
Objective	40x/0.65, W.D. 0.56mm, Spring	A52.0203-40
	60x/0.85, W.D. 0.25mm, Spring	A52.0203-60
	100x/1.25, W.D.0.33mm, Spring, Oil	A52.0203-100
Working Stage	Double Layer Mechanical Stage, Size 152*132, Moving Range 75*35mm	
Dark Field Condenser	Dark Field Condenser, Dry	A5D.0211-D
Dark Field Condensel	Dark Field Condenser, Immersion	A5D.0211-I
	Simple Phase Contrast Set: Achromatic Set 40x, Flashboard Phase Contrast Condenser, Objective 40x, Slide 40x, Centering Telescope 10x	A5C.0201-A40
Phase Contrast Kit	Phase Contrast Set: Achromatic Set, Big Phase Contrast Condenser, Achromatic Phase Contrast Objective 10x20x40x100x, Centering Telescope, Filter 3pcs	A5C.0202-1
	Phase Contrast Set: Plan Set, Big Phase Contrast Condenser, Plan Phase Contrast Objective 10x20x40x100x, Centering Telescope, Filter 3pcs	A5C.0202-2
	Green Filter	A56.0209-02
Filter	Yellow Filter	A56.0209-03
	0.5x C-Mount	A55.0202-4
Adaptar	1.0x C-Mount	A55.0202-2
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	A55.0202-3
	Adapter For CANON EF Digital SLR Camera	A55.0204-01

## A12.0806 Heating Stage Biological Microscope



Compensation Binocular & Trinocular Head 30° Inclined Total Magnification 40x-640x, Eyepiece WF10x.16x, Objective 4x10x40x Woring Stage Temperature Control Range 20°C-50°C Accuracy ±1°C Temperature Control Button & Display LED On Base 3W LED Light Source Brightness Adjustable

7),

A12	2.0806 Heating Stage Biological Microscope Specification	PB	РТ
	Compensation Binocular Head, 30° Inclined, Interpupillary Distance 48-		
Head	75mm	•	
neau	Compensation Trinocular Head, 30° Inclined, Interpupillary Distance 48-		
	75mm		
Eveniego	WF10X/20mm	•	•
Eyepiece	WF16X/15mm	•	•
	Plan 4x	•	•
195 Plan	Plan 10x	•	•
Achromatic Objective	Plan 40x (s)	•	•
Objective	Plan 100x (S, Oil)	•	•
Nosepiece	4 Holes Revolving Nosepiece, Inward	•	•
	Coaxial Coarse & Fine Focusing Knob, Adjustable, Coarse Focusing	_	
Focusing System	Range 22mm, Fine Focusing Graduation 0.002mm	•	•
	Double Layer Mechanical Stage, Size: 160x142mm		
	Moving Range: 76x52mm		
	Can Hold 2 Slides		
Stage	Temperature Control Range: Room Temperature 20°C-50°C	•	•
-	Temperature Control Accuracy: < ±1°C		
	Heating Power: 12V		
	Power: 36W		
Condenser	Abbe Condenser N.A.=1.25, Iris Diaphragm, Center Adjustable, With		
Condensei	Height Adjust Knob	•	
Power	Switch Power, Wide Voltage AC90-240V	•	•
Light Source	Bottom Light, LED 3W/1A, Stepless Adjustable Light, No Screen Flashing	•	•
Dimming System	Digital Circuits, Precision Stepless Adjustable Light, No Screen Flash	•	•
Packing	Foam + Carton	•	•
	0.5x C-Mount	0	0
Adapter	0.65x C-Mount	0	0
	1x C-Mount	0	0
Note: "•"In Table	Is Standard outfits, "o" Is Optional Accessories.		·

## A12.0921 Biological Microscope

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Abbe Condenser With Dark Field & Phase Contrast Interface, Up/Down Adjustable

Infinity Color Corrected Optical System For Bright Field Simple Polarizing, Dark Field, Phase Contrast Function Optional Abbe Condenser N.A.1.25 Preset Center, Optional Lifting Function Single High Brightness 3W LED Brightness Adjustable Wide Range 100~240V Power Supply



Continuous Adjustable Light Intensity, Easy to

	A12.0921 Series Biological Student Microscope	-B	-T
Optical System	Infinity Color Corrected Optical System	•	•
-	30° Inclined, Gemel Binocular Head, Interpupillary Distance 47~75mm	•	
Head	30° Inclined, Gemel Binocular Head, Interpupillary Distance 47~75mm, Light Splitting Ratio R:T= 8.2		•
Eveniese	High Eye Point Wide Field Plan Eyepiece PL10x/20mm, Diopter Adjustable	•	•
Eyepiece	High Eye Point Wide Field Plan Eyepiece PL10x/18mm, Diopter Adjustable	0	0
Necericae	Reversed Quadruple Nosepiece	٠	•
Nosepiece	Reversed Quintuple Nosepiece	0	0
	4x/0.10, WD=11.9mm	٠	•
Infinity Plan Achromatic	10x/0.25, WD=12.1mm	•	•
Objective	40x/0.65, WD=0.36mm	•	•
Objective	100x/1.25, WD=0.18mm	٠	•
Focusing	Low Position Coaxial Focusing Mechanism, Coarse Range: 25mm, Fine Precision: 0.002mm, With Tension Adjustment And Upper Limit	•	•
Working	150mmx162mm Double Layer Stage, Moving Range:76mm-50mm, Precision 0.1mm (X-Axis Single Track Transmission)	0	0
Stage	150mmx140mm Double Layer Stage, Moving Range:76mm-50mm, Precision 0.1mm (Triangular Guide Rail)	•	•
Illumination	N.A.1.25 Compound Eye Illumination Condenser Group (With Plug-in Phase Contrast And Dark Field Accessories' Interface), Condenser Preset Center, Optional Lifting Function, Adaptive 100V-240V Switching Power Supply, Single High Brightness 3W LED (Cold/Warm Color Optional, Cold Color Temperature 4750K-5500K, Warm Color Temperature 2850K-3250K) (Preset Center), Light Intensity Can Be Continuously Adjusted	•	•
Camera Adapter	0.35x/0.5x/0.65x/1x C-Mount Adapter, Focusing Adjustable		0

Model	Magnification	N.A. (mm)	WD (mm)	Coverslip Thickness (mm)	Immersion Liquid	Spring
	4x	0.10	11.9	/	/	/
	10x	0.25	12.1	/	/	/
PLAN Infinity Plan	20x	0.40	1.56	0.17	/	/
Achromatic Objective Series	40x	0.65	0.36	0.17	/	Yes
	60x	0.85	0.3	0.17	/	Yes
	100x	1.25	0.21	0.17	Oil	Yes
	10x	0.25	12.1	/	/	/
PLAN-PH2 Infinity Plan	20x	0.40	1.56	0.17	/	/
Positive Phase Contrast Objective Series	40x	0.65	0.36	0.17	/	Yes
Objective Series	100x	1.25	0.21	0.17	Oil	Yes



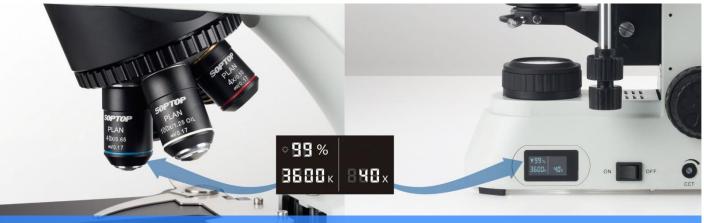


## A12.0911 Biological Microscope





Binocular, Trinocular, Light Split 8:2, 360° Rotation, Interpapillary Distance 50-75mm Infinity Plan Achromatic Objective 4x.10x.20.40x.100x On 5 Holes Nosepiece N.A.1.25 Kohler Illumination Condenser, With Iris Diagram, Center Adjustable LCD Screen On Stand Showing Color Temperature & Brightness Memory Function Dark Field, Polarizing, Phase Contrast Fluorescent Funcion Upgradable



#### Intelligent Illumination System

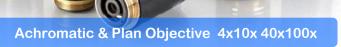
A12.0911 with code nosepiece is able to automatically remember the light intensity of each objective which you are used to, helps to improve the work efficiency and decrease the visual fatigue. LCD beside the frame shows color temperature and light intensity, as well as the objective magnification you are using, is helpful to make record of experiment condition.

A12.091	1 B		Т			
Optical Syster	n Infinity Chromatic Aberration Correcti	on System				
Head	Binocular, 360° Rotation, Interpapilla 50-75mm	ry Distance	Trinocular, Light Split & Interpapillary Distance			
Eyepiece	WF10x/20mm Wide Field Eyepiece					
Nosepiece	5 Holes Nosepiece					
Objective	Infinity Plan Achromatic 4x10x20x40x	<100x				
Working Stage	e Rackless Double Layer Mechanical S	Stage 150mn	n×162mm			
Condenser	N.A.1.25 Kohler Illumination Condens	ser, With Iris	Diagram, Center Adjus	table		
Focusing	Low-Position Coarse And Fine Coaxial Focusing Structure, With Tension Adjust Upper Limit Mechanism					
Light Source	3W LED, With LCD Screen, Adjustab Memory Function	K), Brightness				
Power	Wide Range 100V -240V					
	A12.0911 Biological Microso	ope, Optic	onal Accessories			
Eveniess	High Eye-point Wide Field Plan Eyepiece	PL10X20mn	n, Dioptor Adjustable	A51.0904-N1020T		
Eyepiece	High Eye-point Wide Field Plan Eyepiece			A51.0904-N1022T		
	2x/0.06, WD=5.03mm (Field Complement		· · ·	A52.0906-2		
	4x/0.10, WD=11.9mm			A52.0906-4		
Plan	10x/0.25, WD=12.1mm			A52.0906-10		
Achromatic	20x/0.40, WD=1.5mm			A52.0906-20		
Objective	40x/0.65, WD=0.36mm					
-	60x/0.85, WD=0.30mm	A52.0906-60				
	100x/1.25, WD=0.18mm			A52.0906-100		
		0x/0.25, WD	=12.1mm	A5C.0937-10		
	2	0x/0.40, WD		A5C.0937-20		
	Plan Achromatic Objective	40x/0.65, WD=0.36mm		A5C.0937-40		
		100x/1.25, WD=0.18mm		A5C.0937-100		
	1	10x, 40x		A5C.0915-P1		
Phase	hase Contrast Slide		A5C.0915-P2			
Contrast	N.A. 1.25 Koehler Illuminator DISC Phase 10x, 20x, 40x, 100x Phase Contrast Obse	A. 1.25 Koehler Illuminator DISC Phase Contrast Condenser Group, for				
	A. 1.25 Koehler Illuminator DISC Phase Contrast + Dark Field Condenser roup, For 10x, 40x, 100x Phase Contrast Observation And For 4x-40x Dark field Observation			A5C.0912-KPD		
	30° Inclined Gemel Binocular Viewing Hea Distance Range: 50-75mm	ad, 360° Rot	atable,Interpupillary	A53.0907-B30R		
Head	30° Inclined Gemel Trinocular Viewing He R:T=8:2, 360° Rotatable, Interpupillary Dis	· ·		A53.0907-T30R		
	0.35x Focusing C-mount			A55.0925-35		
C-Mount	0.5x Focusing C-mount			A55.0925-05		
C-MOUNT	0.65x Focusing C-mount			A55.0925-65		
	1x Focusing C-mount			A55.0925-10		
Dark Field	Dark Field Slide, For 4x-40x Objectives (U Fluorescence Microscopes)	rk Field Slide, For 4x-40x Objectives (Use As Bottom Light Barrier In LED				
Polorizing	Polarizer			A5P.0915-P		
Polarizing	Analyzer		A5P.0915-A			
Package				A55.0915-1		
	B1 LED Fluorescence Module, Light Inten	sity Adjustat	ole, Center Wavelength	Of LED Is 470nm		
Fluorescence						
Module	UV2 LED Fluorescence Module, Light Inte	<u> </u>				
			ble, Center Wavelength			

## A12.0909 Biological Microscope



OPTO-EDU



0 / 0.25

Binocular & Trinocular Head Interpupillary Distance 50~75mm Low Position Designed, Coaxial Coarse & Fine Focusing Double Layer Mechanical Stage, Size 132\*140mm, Moving Range 50\*76mm Abbe N.A.1.25, With Iris Diaphragm, Fixed But Centeradjustable Avoid Missing



	A12.0909 Biological Microscope	Α	В	С	<b>A1</b>	<b>B1</b>	<b>C1</b>		
	Monocular Head, 30° Inclined,	•			•				
	Binocular Head, 30° Inclined, Diopter Adjustable +/-5°, Interpapillary					•			
Head	Distance 50~75mm					•			
	Trinocular Head, 30° Inclined, Diopter Adjustable +/-5°, Interpupillary			•					
	Distance 50~75mm, Light Split Ratio 80:20								
Objective	Achromatic 4x,10x,40x(S),100x(O,S)	•	•	•					
Objective	Plan 4x,10x,40x(S),100x(O,S)				•	•	•		
Eyepiece	WF10x/18mm								
Nosepiece	Backward, Quadruple Nosepiece								
Working Stage	Double Layer Mechanical Stage, Size 132*140mm, Moving Range 50*76	mm	, Pre	ecisi	on (	).1m	າຫ		
Condenser Abbe N.A.1.25, With Iris Diaphragm, Fixed But Center adjustable									
Focusing	Low Position Designed, Coaxial Coarse & Fine Focusing, Coarse Focusing Range 25mm, Fine								
rocusing	Focusing Scale 0.002mm, With Tension Adjustment, With Upper Safety Stop								
Light Source	3W LED High Brightness								
	External Wide Voltage AC Adapter, 100V-240V_AC50/60Hz Input, DC6V	ternal Wide Voltage AC Adapter, 100V-240V_AC50/60Hz Input, DC6V 2A Output.							
	External Wide Voltage AC Adapter, 100V-240V_AC50/60Hz Input, DC7.5V 2A Output.								
Power	(Optional)								
i owei	Internal Switch 100V-240V_AC50/60Hz (Optional)								
	Internal 4 Pieces Rechargeable Batteries, External Wide Voltage Battery	Cha	rge	r, 10	0V-				
	240V_AC50/60Hz Input, DC6V 1A Output. (Optional)								
	A12.0909 Biological Microscope Optional Accessories	5							
Eyepiece	PL10x/18mm with Pointer, High-Eyepiont	E51	.09	06-1	018	P			
Lyepiece	10x/18mm with Reticle, High Eyepoint E51.0905-1018PI								
	C-Mount 1.0x	A55.0926-10							
Adapter	C-Mount 0.35x	A55	5.09	26-3	35				
Adapter	C-Mount 0.50x	A55	5.09	26-5	50				
	C-Mount 0.67x	A55	5.09	26-6	67				

## A12.1010 Laboratory Microscope





Cover Can Be Removed For Easy Bulb Change



Infinity Achromatic Objective 4x,10x,40x,100x Abbe Condenser N.A.1.25, Center Adjustable Halogen Lamp 12V20W, Brightness Adjustable Low Position Coaxial Coarse & Fine Focus System Seidentopf Binocular (Trinocular) Head, 30° Inclined, 360° Rotatable



Items	A12.1010 Laboratory Biological Microscope	В	Т
Head	Seidentopf Binocular Head, 30° Inclined, 360°Rotatable,Interpulillary Distance 48-75mm	•	
Tieau	Seidentopf Trinocular Head, 30° Inclined, 360°Rotatable,Interpulillary Distance 48-75mm		•
Eyepiece	Wide Field WF10x/20mm, Eyepiece Tube Dia.30mm, 2 pcs	•	•
Nosepiece	Backward Quadruple Nosepiece	•	•
Optical System	Infinity Optical System	•	•
Objective	Infinity Plan Achromatic 4x/0.10, 10x/0.25, 40x/0.65(S),100x/1.25(S,Oil)	•	•
Magification	40x-1000x	٠	•
Stage	Double Layer Mechnical Stage, 216x150mm, Moving range 54x78mm, Double Slide Holder, Low PositionX/Y Coaxial Control Knob, With Travel Guide To Aviod Scratch	•	•
	Low Position Coaxial Coarse & Fine Focusing.	٠	•
Focusing	Fine Focusing Scale 0.002mm, Moving Range 25mm, With Safety Stop	٠	•
Condenser	N.A.1.25 Abbe Condense, Iris Diaphargm,With Filter Holder,Up/Down Range 25mm, Center Adjustable,With Filter Holder	•	•
Filter	Green	•	•
Light Source	Halogen Lamp 12V/20W, Brightness Adjustable	•	•
Note: "•"In Tabl	e Is Standard Outfits		

Items	A12.1010 Laboratory Biological Microscope Optional Acce	A12.1010 Laboratory Biological Microscope Optional Accessories					
Eveniese	Wide Field WF15x/16mm, Eyepiece Tube Dia.30mm	A51.1002-15B					
Eyepiece	Wide Field WF20x/12mm, Eyepiece Tube Dia.30mm	A51.1002-20B					
Objective	Infinity Plan Achromatic 20x	A52.1008-20					
Objective	Infinity Plan Achromatic 60x	A52.1008-60					
Nosepiece	Backward Quintuple Nosepiece	A54.1001-5					
Illumination	Kohler Illmination	A56.1005-5					
	Photo Adapter	A55.1008					
Adapter	C-Mount 0.4x	A55.1009-04					
	C-Mount 0.5x	A55.1009-05					
Derik Field	Dark Field Condense, Dry	A5D.1012-D					
Dark Field	Dark Field Condense, Immersion	A5D.1012-I					
Polarizing	Simple Polarizing Kit	A5P.1005					
Phase Contrast	Phase Contrast Set	A5C.1006					
Fluorescent	EPI-Fluorescent Kit	A5F.1005					

## A12.1018 Laboratory Biological Microscope

OPTO-EDU





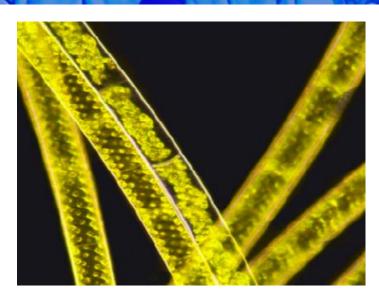
Infinity Optical System Supply High Quality Optical Image Eyepiece EW10x/22mm, Eyepiece Tube Dia.30mm Swing Condenser N.A.0.95/0.25 External Illumination, Asperical Collector, Halogen Lamp 6V30W Full Line of Dark Field, Phase Contrast, Polaring, Fluorescent Attachment

	A12.1018 Laboratory Biological Microscope
Optical System	Infinity Plan Optical System
Function	Bright Field, Optional Dark Field, Polarizing, Phase Contrast, Fluorescent
Head	Seidentopf Trinocular Head, 30° Inclined, 360° Rotatable, Interpupillary 48~75mm, Left Eyepiece Tube Diopter Adjustable
Eyepiece	Extra Wide Field Eyepiece EW10x/22mm, Eyepiece Tube Dia.30mm
Nosepiece	Backward Quintuple Nosepiece, With Slide Slot
Objective	Infinity Plan Achromatic Objective 4x,10x,40x,100x
Focusing	Coaxial Coarse & Fine Adjustment, Focusing Range 24mm, Fine Division 0.001mm, Coarse Stroke 37.7mm
Working Stage	Double Layer Mechanical Stage, 185*142mm, Moving Range 55*75mm
Condenser	Swing Out Condenser N.A.0.9/0.25
Illumination	Halogen Lamp 6V30W, External Kohler Illumination, With Asperical Collector, Brightness Adjustable
Filter	Green, Blue
Adapter	Trinocular Adapter + Eyepiece Tube Photo Adapter Dia.23.2mm

	A12.1018 Optional Accessories		
	Seidentopf Binocular Head, 30° Inclined, Interpupillary 48~75mm	A53.1003-7	
Head	Upgrade to Tilting Binocular Head 5°~35°	A53.1005-3	
	Upgrade to Tilting Trinocular Head 5°~35°	A53.1005-4	
	Extra Wide Field Eyepiece EW10x/20mm, Eyepiece Tube		
	Dia.30mm	A51.1003-1020	
Eyepiece	Extra Wide Field Eyepiece EW20x/12mm, Eyepiece Tube Dia.30mm	A51.1003-2012	
	Extra Wide Field Eyepiece EW15x/16mm, Eyepiece Tube Dia.30mm	A51.1003-1516	
	Infinity Plan Achromatic Objective 20x	A52.1006-20	
Objective	Infinity Plan Achromatic Objective 60x	A52.1006-60	
Nosepiece	Sextuple Nosepiece	A54.1001-6	
•	Upgrade To Halogen Lamp 24V50W, For Better Dark View	A56.1018-50W	
llumination	Upgrade To Halogen Lamp 24V100W, For Better Dark View	A56.1018-100W	
Adapter	0.45x C-Mount	A55.1002-45	
Judpio	Dark Field Condenser, N.A. 0.7~0.9, Dry,		
Dark Field	Use With 40x Or Lower Magnification Objective	A5D.1010-D	
	Dark Field Condenser, N.A. 1.25~1.36, Immersion, Use With 100x Objective	A5D.1010-I	
	Dark Field Objective, Infinity Plan 100x(Oil)	A5D.1030-3	
	Dark Field Objective, Infinity Plan 100x(Oil), With Iris Diaphragm	A5D.1030-4	
	Infinity Plan Turret Phase Contrast Set		
	Infinity Plan Turret Phase Contrast Condenser		
	Infinity Plan Phase Contrast Objective 4x,10x,40x,100x	A5C.1003-A1	
	Centering Telescope 10x		
	Green Filter	-	
Phase Contrast	Infinity Achromatic Turret Phase Contrast Set		
	Infinity Achromatic Turret Phase Contrast Condenser		
	Infinity Achromatic Phase Contrast Objective 4x,10x,40x,100x	A5C.1003-A2	
	Centering Telescope 10x	-	
	Green Filter	-	
	EPI-Fluorescent Kit, Upgrade to <u>A16.1028</u> Power Supplier 220V/110V Interchangeable, Digital Display	_	
	100WHBO Ultra Hi-Voltage Spherical Mercury Lamp	-	
	Barrier To Resist Ultraviolet Light	_A5F.1002-BG	
	Fluorescence Free Oil	-	
	Excitation Filter B/G	-	
	EPI-Fluorescent Kit, Upgrade to A16.1028		
Flourescent	Power Supplier 220V/110V Interchangeable, Digital Display	-	
nourescent	100WHBO Ultra Hi-Voltage Spherical Mercury Lamp	-	
	Barrier To Resist Ultraviolet Light	_A5F.1002-BGVL	
	Fluorescence Free Oil	1	
	Excitation Filter B/G/V/U	-	
	EPI LED Fluorescent Kit, Upgrade To A16.1029		
	EPI Light 3W LED 465~475nm, B Excite Filter BP460~490,	A5F.1004-B	
	EPI Light 3W LED 525~530nm, G Excite Filter BP510~550	A5F.1004-G	
		1	

## A12.1037 Laboratory Biological Microscope

OPTO-EDU



Ergonomic Design Infinity Semi-Plan, Plan Optial System WIFI Digital Binocular Head Optional, 5.0M Digital Camera Built-in Support Android, IOS, Wir Double Layer Mechanical Stage 150x140xmm / 75x52mm 3W LED Illumination, Brightness Adjustable, Green Filter Upgradeable to Dark Field, Fluorescent, Phase Contrast View

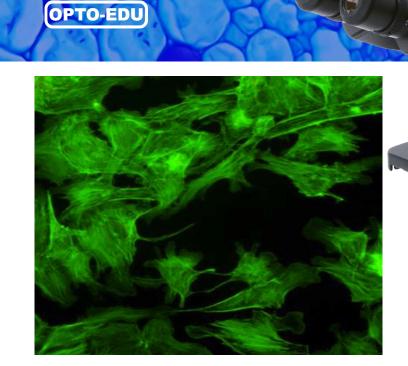




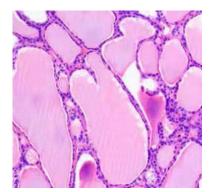
A12.1037 Upgrade To A12.1038

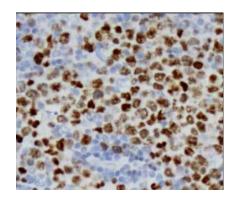
	A12.1037, A12.1038 Laboratory Microscope		1037	A12.	1038
		-B	-T	-B	-Т
Optical System	Infinity Optical System	•	•	•	•
• •	Bright Field	•	•	•	•
<b>a b</b>	Dark Field	0	0	0	0
Observation	Phase Contrast	0	0	0	0
Method	Epi-Fluorescence	0	0	0	0
	Polarizing	0	0	0	0
	Seidentopf Binocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm	•		•	
Head	Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm, Light Split Switchable E0:P100/E100:P0		•		•
	WIFI Digital Binocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm 5.0M Digital Camera Built-in, WIFI Transmission Rate 1680p, Support Android, IOS, Windows, Stand-Alone Use, Online Interactives Access.	0	0	0	0
Eyepiece	EW10x/20mm, Diopter Adjustable, Dia.23.2mm	•	•	•	•
		-		•	┝┻
Nosepiece	Quintuple Nosepiece, Dovetail Interface	•	•	-	<u> </u>
•	Coded Quintuple Nosepiece, Dovetail Interface	-	-	•	•
Infinity C. Dian	4x/0.10, W.D.28mm	•	•	•	•
Infinity S-Plan Achromatic	10x/0.25, W.D.5.8mm	•	•	•	•
Objective	40x/0.65(S), W.D.0.43mm	•	•	•	•
Objective	100x/1.25(S.Oil), W.D.0.13mm	•	•	•	•
	4x/0.10, W.D.28.0mm	0	0	0	0
nfinity Plan	10x/0.25, W.D.10mm	0	0	0	0
Achromatic	40x/0.65(S), W.D.0.7mm	0	0	0	0
Objective	100x/1.25(S.Oil), W.D.0.18mm	0	0	0	0
Focusing	Coaxial Coarse and Fine Focusing Knob, Left Hand Has Height Limit Function, Right Hand Has Coarse Motion Adjustment Function .Coarse Stroke 37.7mm per Rotation, Fine Division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	•	•	•	•
Working Stage	Double Layers Mechanical Stage 150x140mm, Moving Range 75x52mm	•	•	•	•
Condenser	Abbe Condenser N.A.1.25	•	•	•	•
	3W LED Illumination, Brightness Adjustable, Green Filter	•	•	•	•
Illumination	Kohler Illumination	0	0	0	0
	LCD Screen Magnification, Brightness, Color Temperature	-	-	•	•
	Dark Field Condenser, Dry	0	0	0	0
Dark Field	Dark Field Condenser, Oil	0	0	0	0
	Phase Slider For 10x-40x	0	0	0	0
Phase Contrast	Phase Slider For 100x	0	0	0	0
	LED Fluorescent Illumination	0	0	0	0
Fluorescence	Mercury Fluorescent Illumination	0	0	0	0
	1.0x C-Mount	0	0	0	0
Photo Adapter	0.5x C-Mount	0	0	0	0
	AC 100-240V,50/60Hz	•	•	•	•
Power Supply	USB Charging Port, Support To Use Exeternal Rechargeable Battery Power Bank, Out Door Freely	0	0	0	0
LCD Screen	LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, Set Power Off Timer 5 Mins to 8 Hours, And So On.	-	-	•	•
Dimensions	220(W)x290(D)x472(H) mm	•	•	•	•
Note:" •"In Table	s Is Standard Outfits,"o" Is Optional Accessories "-" Is Unavailable				

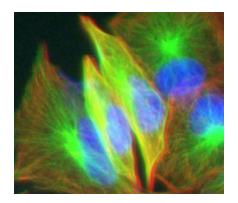
## A12.1038 Laboratory Microscope, LCD Screen



Ergonomic Design Infinity Semi-Plan, Plan Optial System WIFI Digital Binocular Head Optional, 5.0M Digital Camera Built-in Support Android, IOS, Wir Coding 5 Holes Nosepiece Remeber Brightness For Each Objective LCD Displays Magnification, Brightness, Color Temperature. Upgradeable to Dark Field, Fluorescent, Phase Contrast View







	A12.1037, A12.1038 Laboratory Microscope		A12.103 7		A12.1038	
			-T	-B	-T	
Optical System	Infinity Optical System	•	•	•	•	
	Bright Field	٠	•	•	•	
	Dark Field	0	0	0	0	
Observation	Phase Contrast	0	0	0	0	
Method	Epi-Fluorescence	0	0	0	0	
	Polarizing	0	0	0	0	
	Seidentopf Binocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm	•		•		
Head	Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm, Light Split Switchable E0:P100/E100:P0		•		•	
	WIFI Digital Binocular Head, Inclined 30°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.23.2mm 5.0M Digital Camera Built-in, WIFI Transmission Rate 1680p, Support Android, IOS, Windows, Stand-Alone Use, Online Interactives Access.	0	0	0	0	
Eyepiece	EW10x/20mm, Diopter Adjustable, Dia.23.2mm	•	•	•	•	
	Quintuple Nosepiece, Dovetail Interface	•	•	-		
Nosepiece		⊢┛	•	-	-	
	Coded Quintuple Nosepiece, Dovetail Interface	-	-	•	•	
Infinity S-Plan	4x/0.10, W.D.28mm	•	•	•	•	
Achromatic	10x/0.25, W.D.5.8mm	•	•	•	•	
Objective	40x/0.65(S), W.D.0.43mm	•	•	•	•	
•	100x/1.25(S.Oil), W.D.0.13mm	•	•	•	•	
nfinity Dlan	4x/0.10, W.D.28.0mm	0	0	0	0	
Infinity Plan Achromatic	10x/0.25, W.D.10mm	0	0	0	0	
Objective	40x/0.65(S), W.D.0.7mm	0	0	0	0	
	100x/1.25(S.Oil), W.D.0.18mm	0	0	0	0	
Focusing	Coaxial Coarse and Fine Focusing Knob, Left Hand Has Height Limit Function, Right Hand Has Coarse Motion Adjustment Function .Coarse Stroke 37.7mm per Rotation, Fine Division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	•	•	•	•	
Working Stage	Double Layers Mechanical Stage 150x140mm, Moving Range 75x52mm	•	•	•	•	
	Abbe Condenser N.A.1.25	•	•	•	•	
Condenser	3W LED Illumination, Brightness Adjustable, Green Filter	•	•	•	•	
Illumination	Kohler Illumination	•	0	0	0	
indimination	LCD Screen Magnification, Brightness, Color Temperature	-	-	•	•	
	Dark Field Condenser, Dry	0	0	0	0	
Dark Field	Dark Field Condenser, Oil	0	0	0	0	
	Phase Slider For 10x-40x	0	0	0	0	
Phase Contrast	Phase Slider For 100x	0	0	0	0	
	LED Fluorescent Illumination	0	0	0	0	
Fluorescence	Mercury Fluorescent Illumination	0	0	0	0	
Dhoto Adoptor	1.0x C-Mount	0	0	0	0	
Photo Adapter	0.5x C-Mount	0	0	0	0	
	AC 100-240V,50/60Hz	•	•	•	٠	
Power Supply	USB Charging Port, Support To Use Exeternal Rechargeable Battery Power Bank, Out Door Freely	0	0	0	0	
LCD Screen	LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, Set Power Off Timer 5 Mins to 8 Hours, And So On.	-	-	•	•	
Dimensions	220(W)x290(D)x472(H) mm	•	•	•	•	



Trinocular Head 30° Inclined 360° Rotatable Interpupillary Distance 54-75mm PL10x22mm Eyepiece Infinity Plan Objective 4x10x20x40x100x 5 Holes Revolving Nosepiece, Backward Double Layer Mechanical Stage 175x145mm Moving 76x50mm 10W LED, Pre-Centered, Intensity Adjustable.

	A12.0908 Specification	Α	В
Optical system	Infinity color corrected optical system	• •	•
	Compensation Binocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance 54-75mm, Diopter +/-5 Adjustable.	•	-
Head	Compensation Trinocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance 54-75mm, Splitting Ratio R:T=100:0 or 0:100, Diopter +/-5 Adjustable.	-	•
Eyepiece	High eye-point wide field plan eyepiece PL10x22mm, reticle can be assembled.		

	Infinity Plan Achromatic Objectives				
	4x ,WD=7.18mm				
Objective	10x,WD=4.70mm				
-	20x ,WD=1.75mm				
	40x (Spring),WD=0.72mm				
Nacapiaga	100x (Spring, Oil ),WD=0.15mm				
Nosepiece	5 Holes revolving nosepiece, inward	raa Dangai OEmmi			
Focusing	Coaxial Focus System With Upper Limited And Tension Adjustment; Coarse Range: 25mm; Fine Precision: 0.002mm; Focus Height Adjustable.				
Stage	Double Layer Mechanical Stage 175x145mm, With Special Fabrication Processing, Anti- corrosive And Anti-friction; X/Y Moving Hand Wheel In Right Or Left Hand; Moving Range 76x50mm, Precision 0.1mm				
Condenser	N.A.1.2/0.22 Swing-out Type Achromatic Condenser				
Light Source	6V/30W Halogen, Pre-centered, Intensity Adjustable.				
Filter	Blue				
	Optional Accessories				
<b>_</b> .	High Eye-point PL10x/22mm with Micrometer, Diopter Adjustable	A51.0905-1022R			
Eyepiece	High Eye-point PL15x/16mm	A51.0903-1516			
Objectvie	Infinity plan achromatic objectives 2x	A52.0902-2			
Nosepiece	4 Holes revolving nosepiece, inward	A54.0930-BS4			
	Infinity Plan Phase Contrast Objectives 10X,WD=4.70mm	A5C.0937-10			
	Infinity Plan Phase Contrast Objectives 20X,WD=1.75mm	A5C.0937-20			
Phase Contras	tInfinity Plan Phase Contrast Objectives 40X,WD=0.72mm	A5C.0937-40			
Attachement	Infinity Plan Phase Contrast Objectives 100X,WD=0.15mm	A5C.0937-100			
Allachement	N.A.1.25 Five Holes Phase Contrast Condenser (Infinity)	A5C.0937-100			
	Centering Telescope	A5C.0912-PCI A5C.0910-30			
	Polarizer (ø45), Can Be Out Of Light Path.	A5P.0923-P			
Polarizing	Analyzer 360° Rrotatable,Can Be Out Of Light Path.	A5P.0923-A			
Attachment	λ Slide	A5P.0923-C1			
	Rotatable Working Stage	A5P.0923-RW			
Dark Field	N.A.0.9 Dry	A5D.0912-D			
Condenser	N.A.1.25 Immersion	A5D.0912-W			
	6-Holes Disc Reflected Fluorensent Illumination	A12.0908 +			
	Mercury Lamp House 100W/DC	Fluorescent			
	Mercury Lamp Power 100V-240V AC With Indicator Display	Upgrade			
Reflected	Eye Protecting Board	to <u>A16.0908</u>			
Fluorescence	HBO Ultra Hi-Voltage Spherical Mercury Lamp 100W/DC OSRAM	A12.0908 +			
System	Fluorescence Filter System B	Fluorescent +			
Oystern	Fluorescence Filter System G	CCD Camera			
	Fluorescence Filter System UV	Upgrade to A16.0909			
	Fluorescence Filter System V	A5F.0923-V1			
	Yellow Filter, Dia.45mm	A56.0935-XYY			
Filter	Green Filter, Dia.45mm	A56.0935-XYG			
	Netural Filter, Dia.45mm	A56.0935-XYG			
	Attenuation Plate, Transmission 25%	A5F.0925-50R			
Photo Adaptor		A51.0925-501X			
Photo Adapter	1x C-Mount, Focus Adjustable	A55.0926-10			
	0.50x, For 1/2" C-Mount, Focus Adjustable	A55.0926-10			
	0.67x, For 2/3" C-Mount, Focus Adjustable	A55.0926-67			
0	Metallurgical Microscope	A13.0909			
Series of	Polarizing Microscope	<u>A15.0908</u>			
Microscope	Fluorescence Microscope, APO	<u>A16.0908</u>			
	Digital Fluorescence Microscope, APO	<u>A16.0909</u>			

## A12.0910 Biological Microscope, APO

OPTO-EDU



Trinocular, PL10x/25, Sextuple Nosepiece Bright Field, Infinity Plan Semi-APO Fluorescent 4x,10x,20x,40x, 100x, Double Mechanical Stage 187\*166mm, Moving Range 85\*55mm, Swing-Out Condenser N.A.0.9, 12V100W Halogen

A12.0910 Biological Microscope, APO					
Optical System Infinity Optical System, Semi-Aprochromatic					
Head	Trinocular Head, 30°inclined, Inverted Image, Interpu 0:100; 20:80; 100:0	upillary Distance 50~76mm, Three Split Ratio			
Eyepiece	High-Eyepoint Plan Eyepeiece PL10X/25mm, Diopter Adjustable				
Nosepiece	BF Sextuple Nosepiece, With Socket For DIC				
Objective	Infinity Plan Semi-Aprochromatic Fluorescent Objective:				
	4x/0.13, W.D.=16.43mm				
	10x/0.3, W.D.=8.13mm				
	20x/0.5, W.D.=2.03mm				
	40x/0.75, W.D.=0.74mm				
	100x/1.3, W.D.=0.18mm				
Working Stage	Double Layer Mechanical Stage, 187*166mm, Moving Range 80*55mm, Precision 0.1mm, Double Direction Transmission, Left And Right Position Handle For Option. Tension Of The Torque Adjustable.				
Focusing	Coaxial Focus System With Upper Limited And Tension Adjustment, Coarse Adjustment Range:25mm, Fine Adjustment Precision: 0.001mm.				
Condenser	Swing-Out Achromatic Condenser, N.A.0.9				
	12V100W Halogen Lamp, Center Adjusted,				
Light Source	Adopt Digital Dimming System, With LED Indicator, With The Fnction Of Light Set And Rese				
Power	100-240V Built-in Wideband Voltage Transformer,				
	A12.0910 Biological Microscope Opti	onal Accessories			
Eyepiece	High-eyepoint Plan eyepeiece PL10X/26.5mm,diopter adjustable	A51.0904-10265T			
	High-eyepoint Plan eyepeiece PL10X/25mm,diopter adjustable, with micrometer	A51.0905-1025Tr			
Head	Trinocular Head, 30°inclined, Erect Image, Interpupillary Distance 50~76mm, Three Split Ratio 0:100; 20:80; 100:0	A53.0913-E			
Nosepiece	BF Septuple Nosepiece, With Socket For DIC	A54.0930-R7			
	BF Quintuple Nosepiece, With Socket For DIC	A54.0930-R5			
Adapter	C-Mount 0.5x, Focusable	A55.0930-05			
	C-Mount 0.65x	A54.0930-65			
Fluorescence	A16.0910 Fluorescence Microscope, APO	A16.0910			
Metallurgical	A13.0910 DIC Metallurgical Microscope, APO	A13.0910			

# A13.2602 Inverted Metallurgical Microscope

#### OPTO-EDU





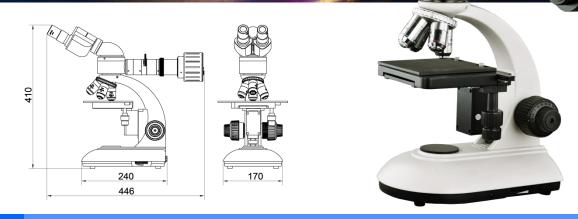
Classical Best Compact & Economical Inverted Metallurgical Microscope! Quadruple Nose With Metallurgical LWD Infinity Plan Objective Mechanical Working Stage 180x180mm Moving Range 30x30mm 3W LED Standard Light Source, 12V20W Halogen Optional Eyepiece Micrometer + Stage Micrometer For Measuring Function Optional

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Items	A13.2602 Inverted Metallurgical Microscope Specification	-A	-В	Cata. No.
	Monocular Head Inclined 45°, Rotatable 360°	•		A53.2631-M
Head	Seidentopf Binocular Head Inclined 45°, Rotatable 360°, Interpupilary Distance 48-75mm		•	A53.2631-B
	WF10x/18mm	•	••	A51.2602-1018
Eyepiece	WF10x/18mm With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	0	0	A51.2605-1018D
Nosepiece	Quadruple	•	٠	A54.2610-N704R
	LPL 5x/0.13, W.D.=16.04mm	•	•	A5M.2633-5
	LPL10x/0.25, W.D.=18.48mm	•	٠	A5M.263310
Metallurgical LWD	LPL 20x/0.40, W.D.=8.35mm	0	0	A5M.2633-20
Infinity Plan Objectives	LPL 50x/0.70, W.D.=1.95mm	•	•	A5M.2633-50
Objectives	LPL 80x/0.80, W.D.=0.85mm	0	0	A5M.2633-80
	LPL 100x/0.90(Dry), W.D.=1.00mm	0	0	A5M.2633-100
Working Stage	Stage Size 180x180mm, Travel Range 30x30mm, Round Plate Size Dia.110mm	•	•	A54.2601-MP100
	Round Plate With Oval Hole	0	0	A54.2601-MD400
Linkt Course	3W LED Lamp, Wide Voltage: 100V-240V	•	•	A56.2612-3W
Light Source	12V 20W Halogen Lamp, Wide Voltage: 100V-240V	0	0	A56.2650-20W
	Blue, Dia.32mm	•	•	A56.2616-32B
Filter	Green, Dia.32mm	•	•	A56.2616-32G
	Grey, Dia.32mm	•	•	A56.2616-32N
Micrometer	Division 0.01mm	0	0	A58.2001-901
Package	Carton Size 437*268*522mm, 1 Unit/Ctn			
Weight	Gross Weight 8.0kgs, Net Weigth 7.0kgs			
Note: "  "In Table Is	Standard outfits, "o" Is Optional Accessories.			

### A13.2603 Metallurgical Microscope

#### OPTO-EDU



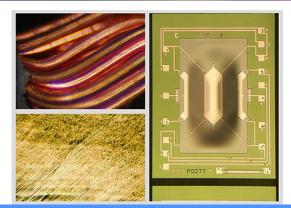
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Entry Level Economical High Quality Upright Metallurgical Microscope Wide Field Eyepiece WF10x/18mm + Reticle Eyepiece With Micrometer 0.1mm Metallurgical LWD Infinity Plan Objective 5x,10x,20x,50x,80x,100x(Dry) Optional Mechanical Working Stage 200x140mm, Moving Range 76x52mm With No Hole Reflect Light Source 5W LED With Five Holes Filter Disc

Items	A13.2603 Metallurgical Microscope Specification	В	Т	Cata. No.
	Seidentopf Binocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm	•		A53.2601-B
Head	Seidentopf Trinocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm, Light Split Fixed P20/E80		•	A53.2601-T
	WF10x/18mm, High Eyepoint,	•	•	A51.2602-1018
Eyepiece	WF10x/18mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	•	•	A51.2605- 1018D
Nosepiece	Quadruple, Backward	•	•	A54.2610-N03
	LPL 5x/0.13, W.D.=16.04mm	•	•	A5M.2633-5
Matalluraiaal LM/D	LPL10x/0.25, W.D.=18.48mm	•	•	A5M.263310
Metallurgical LWD	LPL 20x/0.40, W.D.=8.35mm	0	0	A5M.2633-20
Infinity Plan Objectives	LPL 50x/0.70, W.D.=1.95mm	•	•	A5M.2633-50
Objectives	LPL 80x/0.80, W.D.=0.85mm	0	0	A5M.2633-80
	LPL 100x/0.90(Dry), W.D.=1.00mm	0	0	A5M.2633-100
Working Stage	Double Layer Mechanical Stage Size 200×140mm, Travel Range 76×52mm	•	•	A54.2601-S03T
Focusing	Coaxial Coarse And Fine Focusing Knobs, Travel Range: 22mm, Scale: 2µm	•	•	
Illumination	Reflect Light Source, 5WLED Warm Lamp, Input Voltage 100V-240V, With Five Holes Filter Disc (Blue, Green, Amber, Grey, Empty)	•	•	A56.2613- 12V20W
Polarizing	Analyzer + Polarizer	0	0	A5P.2603-BS
Adaptar	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-B05
Adapter	C-Mount1.0x, Focus Adjustable	0	0	A55.2601-B10
Package	Carton Size 565*310*410mm, 1 Unit/Ctn			
Weight	Gross Weight 9.0kgs, Net Weigth 6.0kgs			
Note: "  "In Table I	s Standard outfits, "o" Is Optional Accessories.			

#### A13.2604 Metallurgical Microscope







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Large Size Trinocular Head Eyepiece Tube Dia.30mm With Light Split Switch E100:P0/E20:P80 SWF10x/22mm Eyepiece Dia.30mm Diopter Adjustable + Reticle Eyepiece With Micrometer Metallurgical LWD Infinity Plan Objective 5x,10x,20x,50x,80x,100x(Dry) Optional

Super Wide Field10x/22mm Eyepiece Dia.30mm Diopter Adjustable



Right Eyepiece With Micrometer X-0.1mm\*180 Div / Y-Single Line

High Precision Reserved Quintuple, Backward Nosepiece





Items		A13.2604-	A13.2604-	
nems	Metallurgical Microscope	A Reflect	B Reflect & Transmit	Cata. No.
Head	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm	•	•	A53.2623-T
Eveniece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	•	•	A51.2621-1022
	WF10x/22mm, Dia.30mm,With Micrometer X- 0.1mm*180 Div / Y-Single Line, Diopter Adjustable	•	•	A51.2622-1022
Nosepiece	Quintuple, Backward	••	••	A54.2610-N01
	LPL 5x/0.13, W.D.=16.04mm	•	•	A5M.2633-5
	LPL10x/0.25, W.D.=18.48mm	•	•	A5M.263310
LWD Infinity	LPL 20x/0.40, W.D.=8.35mm	•	•	A5M.2633-20
Plan Objectives	LPL 50x/0.70, W.D.=1.95mm	•	•	A5M.2633-50
	LPL 80x/0.80, W.D.=0.85mm	0	0	A5M.2633-80
	LPL 100x/0.90(Dry), W.D.=1.00mm	0	0	A5M.2633-100
	Double Layer Mechanical Size 200×150mm, Travel Range 77x52mm, Stage Quick Drop-Down Device For Extra 50mm Up/Down Range	•		A54.2601-S01T
	Double Layer Mechanical Size 182×140mm, Travel Range 77×52mm		•	A54.2601-S01T3
Condenser	Abbe N.A.1.25, With Iris Diaphragm		•	A56.2614-01d
Encliging	Coaxial Coarse And Fine Focusing Knobs, Travel Range: 25mm, Scale: 2µm	•		
	Reflect Light 5W LED Halogen Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	•		A56.2612-5W
	Reflect Light 12V50W Halogen Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	0		A56.2613- 12V50W
	Transmit Light 5W LED Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm		•	A56.2612-5W
	Transmit Light 6V30W Halogen Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm		0	A56.26513- 6V30W
Polorizing	Analyzer + Polarizer For Reflect Light	•	•	A5P.2603-BKR
Polarizing	Analyzer + Polarizer For Transmit Light		•	A5P.2603-BKT
Filter	Ground Glass Slider	0	0	A56.2620-F
TILLET	Blue Filter Switch Handle	0	0	A56.2620-B
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
Adapter	C-Mount 0.75x, Focus Adjustable	0	0	A55.2601-75
	C-Mount1.0x, Focus Adjustable	0	0	A55.2601-10
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0	0	A55.2610
Parkane	Carton Size 520*470*430mm, 1 Unit/Ctn	•		
•	Carton Size 570*275*450mm, 1 Unit/Ctn		•	
VVelant	Gross Weight 16kgs, Net Weigth 12kgs Gross Weight 10.5kgs, Net Weigth 8.0kgs	•	•	

## A13.2605 Metallurgical Microscope

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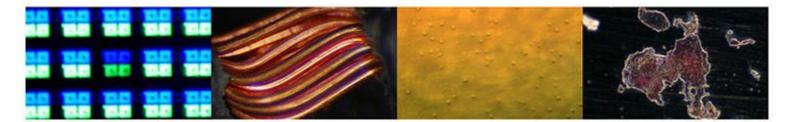
Items	A13.2605 Metallurgical Microscope Specification	Α	В	Cata. No.
Lined	Seidentopf Binocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm	•		A53.2621-B
Head	Seidentopf Trinocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm, Light Split Fixed P20/E80		•	A53.2621-T
	WF10x/20mm, High Eyepoint,	•	•	A51.2602-1018
Eyepiece	WF10x/20mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	•	•	A51.2605-1018D
Nosepiece	Quadruple, Backward	••	••	A54.2610-N734
	LPL 5x/0.13, W.D.=16.04mm	•	•	A5M.2633-5
Motollurgiaal	LPL10x/0.25, W.D.=18.48mm	•	•	A5M.263310
Metallurgical LWD Infinity	LPL 20x/0.40, W.D.=8.35mm	0	0	A5M.2633-20
Plan Objectives	LPL 50x/0.70, W.D.=1.95mm	•	•	A5M.2633-50
Fian Objectives	LPL 80x/0.80, W.D.=0.85mm	0	0	A5M.2633-80
	LPL 100x/0.90(Dry), W.D.=1.00mm	0	0	A5M.2633-100
Working Stage	Double Layer Mechanical Stage Size 200×140mm, Travel Range 76×52mm	•	•	A54.2601-S04T
Focusing	Coaxial Coarse And Fine Focusing Knobs, Travel Range: 22mm, Scale: 2µm	•	•	
Illumination	Reflect Light Source, 5WLED Warm Lamp, Input Voltage 100V- 240V, With Five Holes Filter Disc (Blue, Green, Amber, Grey, Empty)	•	•	A56.2613- 6V30W
Polarizing	Analyzer + Polarizer	0	0	A5P.2603-BS
Adapter	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0	0	A55.2601-75
	C-Mount1.0x, Focus Adjustable	0	0	A55.2601-10
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0	0	A55.2610
Package	Carton Size 570*275*450mm, 1 Unit/Ctn			
Weight	Gross Weight 10.5kgs, Net Weigth 8.0kgs			

Note: "•"In Table Is Standard outfits, "o" Is Optional Accessories.

## A13.2606 Inverted Metallurgical Microscope



Professional Metallurgical Microscope For Bright Field, Dark Field, Polarizing Observation Seidentopf Trinocular Head, Light Split Switch E100:P0 / E20:P80 Metallurgical LWD Infinity Plan BF (Bright Field) & BD (Bright & Dark Field) Objectives Large Working Stage Size 210×180mm, Moving Range 50×50mm, Scale 0.1mm High Brightness Reflect Light Halogen 12V50W Koehler Illumination





Large Working Stage Size 210×180mm, Moving Range 50×50mm, Scale 0.1mm



	A13.2606 Invered Metallurgical Microscope	A13.2606	A13.2606-BD	Cata. No.
Head	Seidentopf Trinocular Head Inclined 30°, Interpupilary Distance 48~76mm, Light Split	•	•	A53.2643
	Switch E100:P0 / E20:P80 WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	•	•	A51.2621-1022
	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable,	•	•	A51.2622-1022
Eyepiece	With Micrometer X-0.1mm*180 Div / Y-Single Line WF15X/16mm, Dia.30mm, High Eyepoint, Diopter			
	Adjustable WF20X/12mm, Dia.30mm, High Eyepoint, Diopter	0	0	A51.2621-1516
	Adjustable	0		A51.2621-2012
Nosepiece	Quintuple Quadruple(Specially For Bright&Dark Field	•		A54.2610-N925 A54.2610-N924
	objectives) LPL 5x/0.13, W.D.=16.04mm	•		A5M.2633-5
Metallurgical LWD	LPL10x/0.25, W.D.=18.48mm	•	0	A5M.263310
<b>-</b>	LPL 20x/0.40, W.D.=8.35mm	•	0	A5M.2633-20
-				
· • /	LPL 50x/0.70, W.D.=1.95mm	•		A5M.2633-50
	LPL 80x/0.80, W.D.=0.85mm	0		A5M.2633-80
	LPL 100x/0.90(Dry), W.D.=1.10mm	0	0	A5M.2633-100
Metallurgical LWD	LPL 5x/0.13BD, W.D.=16.04mm		•	A5M.2634-5
	LPL10x/0.25BD, W.D.=18.48mm			A5M.2634-10
				A5M.2634-20
	LPL 20x/0.40BD, W.D.=8.35mm			
	LPL 50x/0.70BD, W.D.=1.95mm		•	A5M.2634-50
Working Stago	Stage Size 210×180mm, Moving Range 50×50mm, Scale 0.1mm, Round Plate Size Dia.110mm	•	•	A54.2601-S11T
	Round Plate With Oval Hole	0	0	A54.2601-MD400
Focusing	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 10mm, Fine Focusing Div. 0.002mm, Fine Stroke Per Rotation 0.2mm	•	•	
	Analyzer + Polarizer Set	•	•	A5P.2602
	Koehler Illumination Halogen 12V/50W, Input Voltage 100V~240V	•	•	A56.2613- 12V50W
	Koehler Illumination 5W LED, Input Voltage 100V~240V	0	0	A56.2651-5W
Power	ECO, Auto Power Off System. Power Off Automatically Upon User Leaving 10 Minutes, Power On Automatically Upon User Approaching Detected,	0	0	A56.2660
	This Function Can Be Shut Down Manually			
	Blue, Dia.34mm	•	•	A56.2616-34B
<b>-</b> '''	Green, Dia.34mm	0	0	A56.2616-34G
Eliter H	Amber, Dia.34mm	0	0	A56.2616-34A
	Grey, Dia.34mm	0		A56.2616-34N
		0		A30.2010-34N
	SLR Digital Camera Adapter For Canon, 100% Light For Camera Portt	0	0	A55.2622-BC
	SLR Digital Camera Adapter For Nikon, 100% Light For Camera Port	0	0	A55.2622-BN
Adapter	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
,	C-Mount 0.75x, Focus Adjustable	0		A55.2601-75
	C-Mount 1.0x, Focus Adjustable	0		A55.2601-10
	Digital Eyepiece Camera Adapter, Dia.	0		A55.2601-10 A55.2610
	00 Omm/OEmm			
	23.2mm/25mm			
	23.2mm/25mm Packing Size: 660mmx590mmx325mm			
Package				

# A13.2607 Inverted Metallurgical Microscope



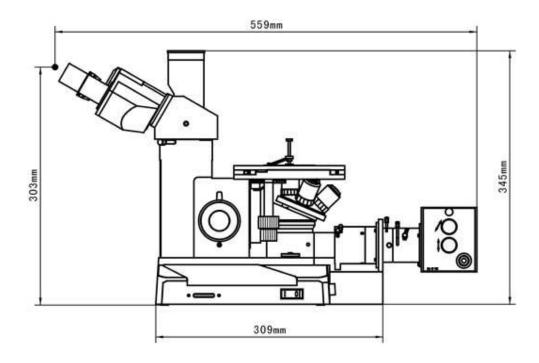
Professional Metallurgical Microscope For Bright Field, Polarizing Observation Seidentopf Trinocular Head, Light Split E70:P30 No Need Switch Metallurgical LWD Infinity Plan BF (Bright Field) Objectives Large Working Stage Size 180x155mm, Moving Range 75×40mm, Scale 0.1mm High Brightness Reflect Light 5W Warm LED Powered By 5V USB Port

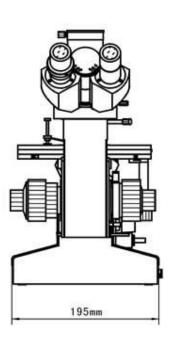
Items	A13.2607 Inverted Metallurgical Microscope	
Head	Swiveling Siedentopf, Inclined 45°, IPD: 48-75mm,Light distribution: 70:30 (70% For Eyepiece, And 30% For Camera Tube)	•
Evonioco	WF10X/20mm, High Eyepoint	•
Eyepiece	WF10X/20mm, High Eyepoint, Adjustable Focus, Reticule 0.1mm	•
	LPL 5× / 0.13, W.D=16.04mm	•
LWD Infinity	LPL 10× / 0.25, W.D.= 18.48mm	•
Plan	LPL 20× / 0.40, W.D.= 8.35mm	•
Objectives	LPL 50× / 0.70, W.D.= 1.95mm	•
	LPL 80× / 0.80, W.D.= 0.85mm	0
	LMPIan FL 100× / 0.85(Dry), W.D.= 3.00mm	0
Nosepiece	Quadruple	•
Mechanical	Three-layer Working Stage, Stage size: 180×155mm, Moving Range:75×40mm, Scale: 0.1mm,	•
Stage	Round Slide Size: φ110mm	
Focusing	Coaxial Coarse And Fine, Coarse Stroke: 10mm, Fine Stroke PerRrotation: 0.2mm, Fine Division 2 µm.	•
Polarizing Unit	Polarizer, Analyzer	•
llumination	5WLED Warm Lamp, Input Voltage: 100V~240V	•
Filter	Grey	0
C-mount	0.65×C-Mount, Built-in	•
Holder	Universal Holder for HD Screen	0
HDMI Camera	With Measurement Function	0
HD Screen	10.1"	0
Note: "•"In Tat	ble Is Standard outfits, "○" Is Optional Accessories.	
Packing Size: 8	500mm×425mm×305mm Gross Weight:9.0 kgs Net Weight: 7.0 kgs	

#### A13.0201 Inverted Metallurgical Microscope, Reflect, Polarizing Optional



LWD Plan No Cover Glass Objective PL10x,20x,40x,100x Double Layer Mechanical Stage180x150mm, Moving Range 15x15mm, Built-in Round Plate On Working Stage Rotatable For Polarzing View Simple Polarizing Set Polarizer & Analyzer Slide Optional 6V20W Halogen Kohler Illumination, Brightness Adjustable, With Field Diaphragm, Aperture Diaphragm





	A13.0201-A1	A13.0201-A2	A13.0201-B1	A13.0201-B2
Head	Binocular	Trinocular	Binocular	Trinocular
Eyepiece	WF10x/18mm		•	
	LWD Plan (No Cover Glas	s) PL 10x/0.25	Achromatic (No Cover Gla	ass) 10x/0.25
Ohioativa	LWD Plan (No Cover Glas	s) PLL20x/0.40	Achromatic (No Cover Gla	ass) 20x/0.40
Objective	LWD Plan (No Cover Glas	s) PLL40x/0.60	S-Plan Achromatic (No Co	over Glass) SP40x/0.65
	LWD Plan (No Cover Glas	s) PLL100x/1.25 (S,O)	Achromatic (No Cover Gla	ass) 100x/1.25 (S,O)
	Frosted Filter		•	
	Blue Filter			
Filter	Green Filter			
	Yellow Filter			
Focusing	Coaxial Coarse & Fine Fo	cus, Tension Adjustable,	With Up Stop, Fine Focusir	ng Scale 0.002mm
Nosepiece	Quadruple, Ball Bearing Ir	nner Locating		
Working Stage				
Light Source	6V20W Halogen Kohler III	umination, Brightness Adj	ustable, With Field Diaphra	agm, Aperture Diaphragm

# **Optional Accessories**

	Optional Accessories	Cata. No.
	WF16x/11mm	A51.0203-16A
Eyepiece	Divding 10x, 0.1mm/Div	A51.0205-10
	Plan Long Working Distance (No Cover Glass) PL5x/0.12	A5M.0234-05
<b>•</b> ••••	Plan Long Working Distance (No Cover Glass) PLL60x/0.75(Spring)	A5M.0234-60
Objective	Plan Long Working Distance (No Cover Glass) PLL100x/0.85(Spring)	A5M.0234-100A
	Achromatic (No Cover Glass) 60x/0.85	A5M.0232-60
Nosepiece	Quintuple, Ball Bearing Inner Locating	A54.0203-1
Simple	Polarizer Slide, 90° Adjustable	A5P.0210-02
Polarizing	Analyzer Slide	A5P.0211-02
	0.4x	A55.0202-01
	0.5x	A55.0202-04
CCD Adapter	1.0x	A55.0202-02
	0.5x With Dividing 0.1mm/Div	A55.0202-03
	2.5x/4x Change Over Photograph Attachment With 10x Photo Eypiece	A55.0201-01
Photo Adapter	4x Focusing Photograph Attachment	A55.0201-02
	MD Adapter	A55.0201-03
	PK Adapter	A55.0201-04
	Digital Camera Adapter For Canon EF ditigal SLR Camera Adapter	A55.0204-02

#### A13.0202 Upright Metallurgical Microscope, **Reflect, Polarizing**

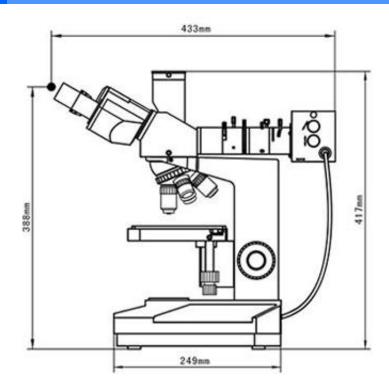


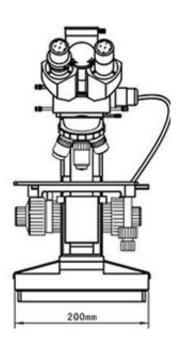


Quarduple & Quintuple Nosepiece



LWD Plan No Cover Glass Objective PL5x,10x,20x,40x,60x Double Layer Mechanical Stage185x140mm, Moving Range 75x40mm Polarizer, Built-in Reflect Light Source, Analyzer Built-in Head Coaxial Coarse & Fine Focus, Tension Adjustable, With Up Stop Reflect 6V20W Halogen Kohler Illumination, With Field Diaphragm, Aperture Diaphragm





	A13.0202-A	A13.0202-B				
Eyepiece	WF10x/18mm					
Nosepiece	Quadruple, Backward, Ball Bearing Inner Locating	Quintuple, Backward, Ball Bearing Inner Locating				
	Plan LWD (No Cover Glass) PL5x/0.12					
	Plan LWD (No Cover Glass) PLL10x/0.25	Plan LWD (No Cover Glass) PLL10x/0.25				
Objective		Plan LWD (No Cover Glass) PLL20x/0.40				
	Plan LWD (No Cover Glass) PLL40x/0.60	Plan LWD (No Cover Glass) PLL40x/0.60				
	Plan LWD (No Cover Glass) PL 60x/0.75 (Springl)	Plan LWD (No Cover Glass) PL 60x/0.75 (Spring)				
Head	Trinocular, Inclination 30°, Rotatable 360°, With	Built-in Analyzer				
Illumination	Illumination Reflect Kohler Illumination, 6V20W Halogen Lamp, Brightness Adjustable, With Field Diaphragm, Aperture Diaphragm, With Yellow, Blue, Green Filter And Frosted Filter					
Focusing	Coaxial Coarse & Fine Focus, Tension Adjustat	ole, With Up Stop, Fine Focusing Scale 0.002mm				
Working Stage	Double Layer Mechanical Stage, Size 185x140r	nm, Moving Range 75x40mm				
Delevision	Polarizer, Built-in Reflect Light Source					
Polarizing	Analyzer, Built-in Head, Switchable In/Out Light	Path				

# **Optional Accessories**

	Optional Accessories	Cata. No.
Eyepiece	WF16x/11mm	A51.0203-16A
	Divding 10x, 0.1mm/Div	A51.0205-10
	Plan LWD (No Cover Glass) PLL50x/0.70	A5M.0212-50
	Plan LWD (No Cover Glass) PLL80x/0.80	A5M.0212-80
Objective	Plan LWD (No Cover Glass) PLL100x/0.85(Spring)	A5M.0212-100
	Plan Achromatic (No Cover Glass) PL100x/1.25	A5M.0234-100
	0.4x	A55.0202-01
	0.5x	A55.0202-04
CCD Adapter	1.0x	A55.0202-02
	0.5x With Dividing 0.1mm/Div	A55.0202-03
	2.5x/4x Change Over Photograph Attachment With 10x Photo Eypiece	A55.0201-01
Photo Adapter	4x Focusing Photograph Attachment	A55.0201-02
	MD Adapter	A55.0201-03
	PK Adapter	A55.0201-04
	Digital Camera Adapter For Canon EF ditigal SLR Camera Adapter	A55.0204-02

#### A13.0204 Upright Metallurgical Microscope, Reflect, Polarizing

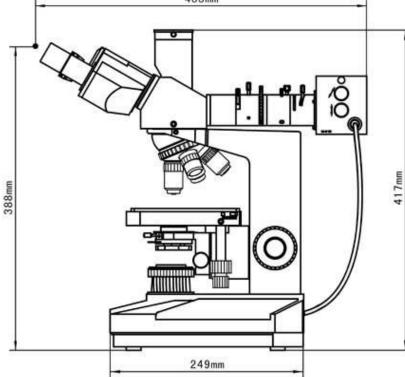


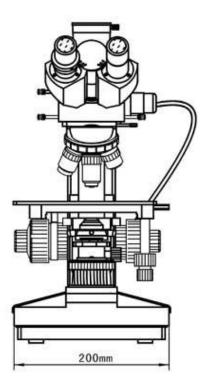


LWD Plan No Cover Glass Objective PL5x,10x,20x,40x,60x Double Layer Mechanical Stage185x140mm, Moving Range 75x40mm Polarizer, Built-in Reflect Light Source, Analyzer Built-in Head Coaxial Coarse & Fine Focus, Tension Adjustable, With Up Stop Transmit & Reflect 6V20W Halogen Kohler Illumination, Brightness Adjustable, With Field Diaphragm, Aperture Diaphragm

OPTO-EDU)

433mm





		A13.0204-A	A13.02	04-B	
Eyepiece	WF10x/18m	m			
Nosepiece	Quadruple, E Locating	Backward, Ball Bearing Inner	Quintuple, Backward, Ball Locating	Bearing Inner	
	Plan LWD (N	lo Cover Glass) PL5x/0.12	Plan LWD (No Cover Glas	ss) PL5x/0.12	
	Plan LWD (N	lo Cover Glass) PLL10x/0.25	Plan LWD (No Cover Glas	s) PLL10x/0.25	
Objective			Plan LWD (No Cover Glas	ss) PLL20x/0.40	
Objective	Plan LWD (N	lo Cover Glass) PLL40x/0.60	Plan LWD (No Cover Glas	ss) PLL40x/0.60	
	Plan LWD (N (Spring)	lo Cover Glass) PL 60x/0.75	Plan LWD (No Cover Glas (Spring)	ss) PL 60x/0.75	
Head	Trinocular, Ir	nclination 30°, Rotatable 360°, V	Vith Built-in Analyzer		
	Reflected Illumination Unit	Reflect Kohler Illumination, 6V2 Field Diaphragm, Aperture Dia Frosted Filter, Lamp Center Ac	phragm, With Yellow, Blue, ( ljustable		
Illumination	Transmitted Illumination Unit	Blue Filter And Frosted Filter Collector For Halogen Lamp			
Focusing	Coaxial Coarse & Fine Focus, Tension Adjustable, With Up Stop, Fine Focusing Scale 0.002mm				
Working Stage	Double Laye	r Mechanical Stage, Size 185x1	40mm, Moving Range 75x4	0mm	
Delerizion	Polarizer, Bu	ilt-in Reflect Light Source			
Polarizing	Analyzer, Bu	ilt-in Head, Switchable In/Out Li	ight Path		
		<b>Optional Accessories</b>		Cata. No.	
Eveniese	WF16x/11m	m		A51.0203-16A	
Eyepiece	Divding 10x,	0.1mm/Div		A51.0205-10	
	Plan LWD (N	lo Cover Glass) PLL50x/0.70		A5M.0212-50	
Objective	Plan LWD (N	lo Cover Glass) PLL80x/0.80		A5M.0212-80	
Objective	Plan LWD (N	lo Cover Glass) PLL100x/0.85(\$	Spring)	A5M.0212-100	
	Plan Achrom	natic (No Cover Glass) PL100x/2	1.25	A5M.0234-100	
	0.4x			A55.0202-01	
CCD Adaptar	0.5x			A55.0202-04	
CCD Adapter	1.0x			A55.0202-02	
	0.5x With Div	viding 0.1mm/Div		A55.0202-03	
	2.5x/4x Chai	nge Over Photograph Attachme	nt With 10x Photo Eypiece	A55.0201-01	
	4x Focusing	Photograph Attachment		A55.0201-02	
Photo Adapter	MD Adapter			A55.0201-03	
-	PK Adapter			A55.0201-04	
	Digital Came	era Adapter For Canon EF Digita	al SLR Camera Adapter	A55.0204-02	

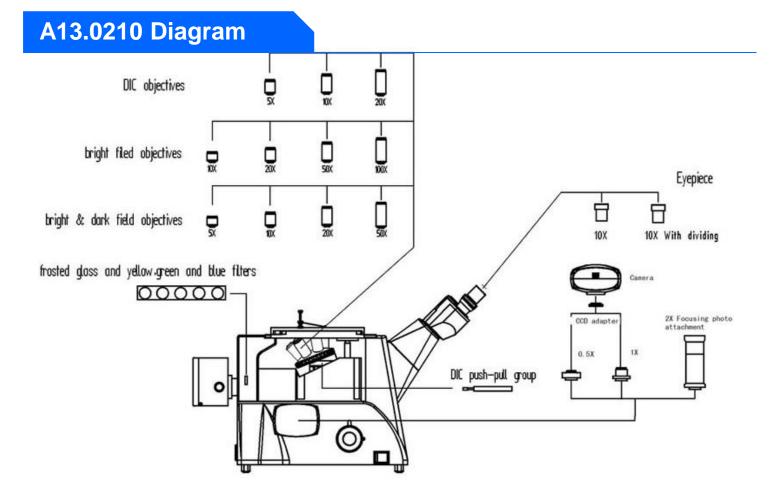
A13.0207	Upright Metallurgical Microscope, BD, DIC, Polarizing	A13.0207	-BD	-DIC	-BDDIC	Cata. No.
	Trinocular Head, Inclination 30°, Rotatable					
Head	360°, Interpupillary Distance 53~75mm,	٠	•	•	•	
	Light Path Switch E100:P0/E0:P100					
	WF10x/22mm	٠	•	•	٠	
Eyepiece	WF16x/11mm	0	0	0	0	A51.0203-16A
	Divding 10x, 0.1mm/Div					A51.0205-10
Nosepiece	Quintuple, Ball Bearing Inner Locating	•	•	•	٠	
	PLL2.5x/0.07mm, W.D.13mm	0				A5M.0235-2.5
	PLL5x/0.12mm, W.D.26.1mm	•				A5M.0235-5
	PLL10x/0.25mm, W.D.20.2mm	•				A5M.0235-10A
WD Infinity	PLL20x/0.40mm, W.D.8.8mm	•				A5M.0235-20
Bright Field	PLL40x/0.60mm, W.D.3.98mm, Spring	0				A5M.0235-40
Plan Objective No Cover Glass)	PLL50x/0.70mm, W.D.3.68mm, Spring	•		•	٠	A5M.0235-50
	PLL60x/0.70mm, W.D.3.18mm, Spring	0				A5M.0235-60A
	PLL80x/0.80mm, W.D.1.25mm, Spring	٠		•		A5M.0235-80
	PLL100x/0.85mm, W.D.0.4mm, Spring	0				A5M.0235-100
	PLL5x/0.12 BD W.D.8.05mm		•			
LWD Infinity	PLL10x/0.25 BD W.D.7.86mm		•			
Bright/Dark Field Plan Objective	PLL20x/0.40 BD W.D.7.23mm		•			
No Cover Glass)	PLL50x/0.70 BD W.D.1.75mm		•			
	PLL80x/0.80 BD W.D.0.80mm		•			
WD Infinity <b>DIC</b>	LMPIan 5x/0.12 WD 15mm			•		A5M.0238-5D
Plan Objective	LMPlan 10x/0.3 WD 10.5mm			•		A5M.0238-10B
No Cover Glass)	LMPlan 20x/0.4 WD 84.5mm			•		A5M.0238-20A
WD Infinity <b>DIC</b>	BD LMPlan 5x/0.12mm, W.D.7.9mm				٠	A5M.0239-5A
Bright/Dark Field	BD LMPlan 10x/0.3mm, W.D.6.03mm				٠	A5M.0239-10A
Plan Objective	BD LMPIan 20x/0.40mm, W.D.1.4mm				٠	A5M.0239-20A
DIC	5x/10x/20x DIC Push-Pull Group Slide			•	٠	
Norking Stage	Double Layer Mechanical Stage, Size	•	•	•	•	
Voltang Otago	280x270mm, Moving Range 204x204mm	-				
	Coaxial Coarse & Fine Focus, Tension					
	Adjustable, With Up Stop, Fine Focusing	•	•			
Focusing	Scale <b>0.7um</b> Coaxial Coarse & Fine Focus, Tension					
	Adjustable, With Up Stop, Fine Focusing				•	
	Scale <b>0.8um</b>				•	
	6V30W Halogen Lamp, Brightness	-				
	Adjustable	•				
	12V50W Halogen Lamp, Brightness		•		•	
Reflect	Adjustable				•	
llumination	Epi Illumination Intergrate Field Diaphragm,					
	Aperture Diaphragm, Filter Switching Device	•	•	•	٠	
	For Yellow, Blue, Green Filter & Ground					
	Glass Puch-Pull Type Polarizer	•			•	
Polarizing	Push-Pull Type Polarizer	•	•	•	•	
	Built-in Analyzer And Swithching Freely	•	•		•	
	0.4x C-Mount	0	0	0	0	A55.0202-1
	1.0x C-Mount	0	0	0	0	A55.0202-2
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	0	0	0	0	A55.0202-3
	0.5x C-Mount	0	0	0	0	A55.0202-4
	Digital SLR Camera Adapter for Canon EF	0	0	0	0	A55.0204-1

#### A13.0210 Inverted Metallurgical Microscope, BF/DF, DIC, Polarizing

OPTO-EDU

#### Modularization Function Design For BF/DF, DIC, Polarizing View For Metallurgical Lab LWD Infinity BD Plan Objective (No Cover Glass) For DIC DIC Push-Pull Group Slide For 5x/10x/20x Objective Available Epi Illumination Integrate Field Diaphragm, Aperture Diaphragm, Filters Switching Device For Y,B,G And Ground Glass Filters Transmit & Reflect Halogen Light Source For Metallurgical Observe

IT DURING THE



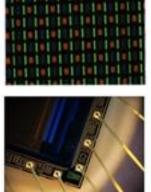
A13.0210 In	verted Metallurgical Microscope, BD, DIC, Polarizing	A13.0210	-BD	-DIC	- BDDIC	Cata. No.
Head	Binocular Head, Inclination 45°, Interpupillary Distance 53~75mm	•	•	•	•	
	WF10x/22mm,	••	••	••	••	A51.0202-1022
Eyepiece	Divding WF10x/22mm, 0.1mm/Div	0	0	0	0	A51.0205-G10B
Nosepiece	Quintuple, Ball Bearing Inner Locating	•	•	•	•	
	PLL2.5x/0.07mm, W.D.13mm	0				
	PLL5x/0.12mm, W.D.26.1mm	0				A5M.0235-5
	PLL10x/0.25mm, W.D.20.2mm	•				A5M.0235-10A
LWD Infinity	PLL20x/0.40mm, W.D.8.8mm	•				A5M.0235-20
Bright Field	PLL40x/0.60mm, W.D.3.98mm, Spring	0				A5M.0235-40
Plan Objective (No Cover Glass)	PLL50x/0.70mm, W.D.3.68mm, Spring	•		•		A5M.0235-50
	PLL60x/0.70mm, W.D.3.18mm, Spring	0				A5M.0235-60A
	PLL80x/0.80mm, W.D.1.25mm, Spring	0				A5M.0235-80
	PLL100x/0.85mm, W.D.0.4mm, Spring	•				A5M.0235-100
	BD PLL5x/0.12mm, W.D.9.7mm		•			A5M.0237-5
	BD PLL10x/0.25mm, W.D.9.3mm		٠			A5M.0237-10
	BD PLL20x/0.40mm, W.D.7.2mm		•			A5M.0237-20
LWD Infinity	BD PLL40x/0.60mm, W.D.3.0mm, Spring		0			A5M.0237-40
Bright/Dark Field	BD PLL50x/0.70mm, W.D.2.5mm, Spring		•		•	A5M.0237-50
Plan Objective (No Cover Glass)	BD PLL60x/0.75mm, W.D.1.9mm, Spring		0		-	A5M.0237-60
(No Cover Glass)	BD PLL80x/0.80mm, W.D.0.8mm, Spring		0			A5M.0237-80
	BD PLL100x/0.85mm, W.D.0.22mm, Spring		0			A5M.0237-100
	BD PLL100x/0.85mm, W.D.0.40mm, Spring		0			A5M.0237-100A
LWD Infinity <b>DIC</b>	LMPlan 5x/0.12mm, W.D.15.0mm			•		A5M.0238-5D
Plan Objective	LMPlan 10x/0.3mm, W.D.10.5mm			•		A5M.0238-10B
(No Cover Glass)	LMPlan 20x/0.40mm, W.D.4.5mm			•		A5M.0238-20A
LWD Infinity <b>DIC</b>	BD LMPlan 5x/0.12mm, W.D.7.9mm				•	A5M.0239-5A
Bright/Dark Field	BD LMPlan 10x/0.3mm, W.D.6.03mm				•	A5M.0239-10A
Plan Objective	BD LMPlan 20x/0.40mm, W.D.1.4mm				•	A5M.0239-20A
DIC Observation	5x/10x/20x DIC Push-Pull Group Slide			•	•	
Working Stage	Double Layer Mechanical Stage, Size 242x200mm, Moving Range 30x30mm, Round Rotatable Stage Max Measurement Dia.130mm, Minimum Clear Aperture Less Than Dia.20mm	٠	•	•	•	
Focusing	Coaxial Coarse & Fine Focu, With Tension Adjustment And Up Stop, Fine Focusing Minimum Division 2um	•	٠	•	•	
	6V30W Halogen Lamp, Brightness Adjustable	•				
	12V50W Halogen Lamp, Brightness		•	•	•	
Reflect Illumination	Adjustable Epi Illumination Intergrate Field Diaphragm, Aperture Diaphragm, Filter Switching Device For Yellow, Blue, Green Filter & Ground Glass	•	•	•	•	
	Push-Pull Type Polarizer	•	•	•	•	
Polarizing	Built-in Analyzer And Swithching Freely	•	•	•	•	
	0.4x C-Mount	0	0	0	0	A55.0202-1
	1.0x C-Mount	0	0	0	0	A55.0202-2
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	0	0	0	0	A55.0202-3
auptor	0.5x C-Mount	0	0	0	0	A55.0202-4
	Digital SLR Camera Adapter for Canon EF	0	0	0		A55.0204-1

# A13.0211

Upright Metallurgical Microscope, Transmit & Reflect, **BF/DF, DIC, Polarizing** 

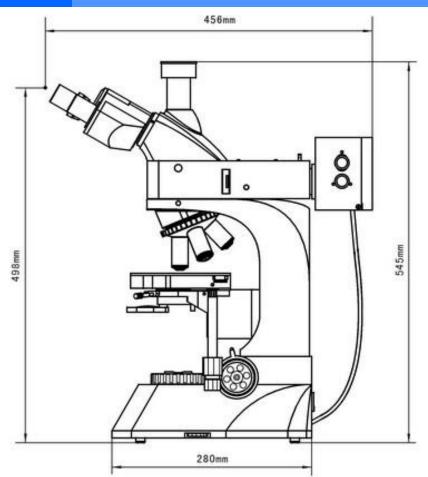
#### OPTO-EDU

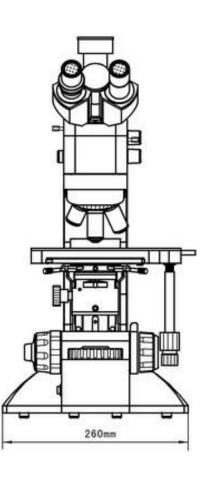




Modularization Function Design For BF/DF, DIC, Polarizing View In Metallurgical Lab LWD Infinity BD Plan Objective (No Cover Glass) For DIC DIC Push-Pull Group Slide For 5x/10x/20x Objective Epi Illumination Integrate Field Diaphragm, Aperture Diaphragm, Filters Switching Device For Y,B,G And Ground Glass Filters

Transmit & Reflect Halogen Light Source For Metallurgical Observe





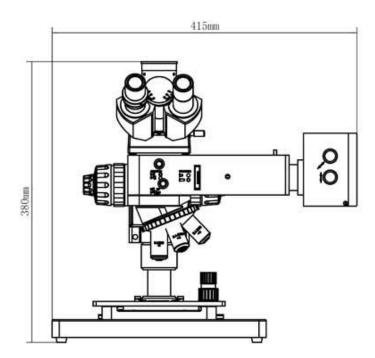
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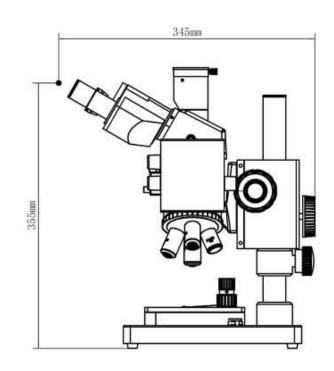
	Upright Metallurgical Microscope, nit & Reflect, BD, DIC, Polarizing	A13.0211	BD	DIC	BDDIC	Cata. No.
Transi	Trinocular, Inclination 30°, Rotatable 360°,					
	Interpupillary 53~75mm, Left Side Eyepiece					
lead	Tube Diopter Adjustable $\pm 5^{\circ}$ , Switch	•	٠	•	•	
	E100:P0/E0:P100					
	WF10x/22mm,	••	••	••	••	A51.0202-1022
Eyepiece	Divding WF10x/22mm, 0.1mm/Div	0	0	0		A51.0205-G10B
losepiece	Quintuple, Ball Bearing Inner Locating	•	•	•	•	101.0200 0100
	PLL2.5x/0.07mm, W.D.13mm	0	•			A5M.0235-2.5
	PLL5x/0.12mm, W.D.26.1mm	•				A5M.0235-5
	PLL10x/0.25mm, W.D.20.2mm	•				A5M.0235-10A
WD Infinity	PLL20x/0.40mm, W.D.8.8mm	0				A5M.0235-20
Bright Field	PLL40x/0.60mm, W.D.3.98mm, Spring	•		•	-	A5M.0235-40
Plan Objective	PLL50x/0.70mm, W.D.3.68mm, Spring	0		•	-	A5M.0235-50
No Cover Glass)	PLL60x/0.70mm, W.D.3.18mm, Spring	•			-	A5M.0235-60A
	PLL80x/0.80mm, W.D.1.25mm, Spring	0				A5M.0235-80A
	PLL100x/0.85mm, W.D.0.4mm, Spring	1				A5M.0235-80
		0				A5M.0237-5
	BD PLL5x/0.12mm, W.D.9.7mm		•			
	BD PLL10x/0.25mm, W.D.9.3mm		•			A5M.0237-10
WD Infinity	BD PLL20x/0.40mm, W.D.7.2mm		•			A5M.0237-20
	BD PLL40x/0.60mm, W.D.3.0mm, Spring		•			A5M.0237-40
	BD PLL50x/0.70mm, W.D.2.5mm, Spring		0			A5M.0237-50
	BD PLL60x/0.75mm, W.D.1.9mm, Spring		0			A5M.0237-60
	BD PLL80x/0.80mm, W.D.0.8mm, Spring		0			A5M.0237-80
	BD PLL100x/0.85mm, W.D.0.22mm, Spring		0			A5M.0237-100A
	BD PLL100x/0.85mm, W.D.0.40mm, Spring		0			A5M.0237-100A
	LMPlan 5x/0.12mm, W.D.15.0mm			•	-	A5M.0238-5D
Plan Objective	LMPlan 10x/0.3mm, W.D.10.5mm			•		A5M.0238-10B
	LMPlan 20x/0.40mm, W.D.4.5mm			•		A5M.0238-20A
•	BD LMPlan 5x/0.12mm, W.D.7.9mm					A5M.0239-5A
	BD LMPlan 10x/0.25mm, W.D.9.3mm				•	A5M.0239-10A
F <b>ield</b> Plan Objective	BD LMPlan 20x/0.40mm, W.D.1.4mm				•	A5M.0239-20A
	5x/10x/20x DIC Push-Pull Group Slide			•	•	
Working Stage	Double Layer Mechanical Stage, Size		•			
Working Otage	210x140mm, Moving Range 63x50mm	•	•		-	
	Coaxial Coarse & Ffine Focus System, With					
Focusing	Tensional Adjustable And Up Stop, Fine	•	•	•	•	
	Focusing Minimum Division 2um					
	6V30W Halogen Lamp, Brightness Adjustable	•				
	12V30W Halogen Lamp, Brightness Adjustable		٠	•	•	
Fransmit	Abbe Condenser N.A.=1.25, Rack & Pinion		•			
llumination	Up/Down Adjustable	•	•			
	Blue Filter And Ground Glass	•	٠	•	•	
	Collector For Illumination With Halogen Lamp		•	•	•	
	(With Filed Diaphragm)	•	•		-	
	6V30W Halogen Lamp, Brightness Adjustable	•				
Reflect	12V50W Halogen Lamp, Brightness Adjustable		•	•	•	
llumination	Epi Illumination Intergrate Field Diaphragm,					
	Aperture Diaphragm, Filter Switching Device	•	•	•	•	
	For Yellow, Blue, Green Filter & Ground Glass					
Polarizina	Push-Pull Type Polarizer	•	٠	•	•	
Polarizing	Built-in Analyzer And Swithching Freely	•	٠	•	•	
	0.5x C-Mount	0	0	0	0	A55.0202-4
dontor	1.0x C-Mount	0	0	0	0	A55.0202-2
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	0	0	0		A55.0202-3
		, ° '		-		

# A13.0212 Upright Metallurgical Microscope, BF/DF, DIC



Modularization Function Design For BF/DF, DIC, Polarizing View For Metallurgical Lab LWD Infinity BD Plan Objective (No Cover Glass) For DIC DIC Push-Pull Group Slide For 5x/10x/20x Objective Epi Illumination Integrate Field Diaphragm, Aperture Diaphragm, Filters Switching Device For Y,B,G And Ground Glass Filters Reflect Halogen Light Source For Metallurgical Observe





A13.0212 Metal	lurgical Microscope, BF/DF, DIC, Polarizing	A13.0212	-BD	-DIC	-BDDIC	Cata. No.
Head	Trinocular, Inclination 30°, Rotatable 360°, Interpupillary 53~75mm, Left Side Eyepiece	•	•	•	•	
	Tube Diopter Adjustable ±5°, Switch E100:P0/E0:P100			•	Ū	
	WF10x/22mm,	••	••	••	••	A51.0202-1022
Eyepiece	WF15x/11mm	0	0	0	0	A51.0203-16A
	WF20x/11mm	0	0	0	0	A51.0203-20A
Nosepiece	Quintuple, Ball Bearing Inner Locating	•	•	•	•	
	PLL2.5x/0.07mm, W.D.13mm	0				
	PLL5x/0.12mm, W.D.26.1mm	•				A5M.0235-5
	PLL10x/0.25mm, W.D.20.2mm	•				A5M.0235-10A
LWD Infinity	PLL20x/0.40mm, W.D.8.8mm	•				A5M.0235-20
Bright Field	PLL40x/0.60mm, W.D.3.98mm, Spring	0				A5M.0235-40
Plan Objective	PLL50x/0.70mm, W.D.3.68mm, Spring	•		•		A5M.0235-50
(No Cover Glass)	PLL60x/0.70mm, W.D.3.18mm, Spring	0				A5M.0235-60A
	PLL80x/0.80mm, W.D.1.25mm, Spring	0				A5M.0235-80
	PLL100x/0.85mm, W.D.0.4mm, Spring	0				A5M.0235-100
	BD PLL5x/0.12mm, W.D.9.7mm	0	•			A5M.0233-100
	BD PLL10x/0.25mm, W.D.9.3mm		•			A5M.0237-10
	BD PLL20x/0.40mm, W.D.7.2mm					A5M.0237-20
Bright/Dark Field Plan Objective (No Cover Glass)	BD PLL40x/0.60mm, W.D.3.0mm, Spring		0			A5M.0237-20
						A5M.0237-40
	BD PLL50x/0.70mm, W.D.2.5mm, Spring		•		•	
	BD PLL60x/0.75mm, W.D.1.9mm, Spring		0			A5M.0237-60
	BD PLL80x/0.80mm, W.D.0.8mm, Spring		0			A5M.0237-80
	BD PLL100x/0.85mm, W.D.0.22mm, Spring		0			A5M.0237-100
	BD PLL100x/0.85mm, W.D.0.40mm, Spring		0			A5M.0237-100A
LWD Infinity <b>DIC</b>	LMPlan 5x/0.12mm, W.D.15.0mm			•		A5M.0238-5D
Plan Objective	LMPlan 10x/0.3mm, W.D.10.5mm			•		A5M.0238-10B
(No Cover Glass)	LMPIan 20x/0.40mm, W.D.4.5mm			•		A5M.0238-20A
LWD Infinity <b>DIC</b>	BD LMPlan 5x/0.12mm, W.D.7.9mm				•	A5M.0239-5A
	BD LMPlan 10x/0.3mm, W.D.6.03mm				٠	A5M.0239-10A
Plan Objective	BD LMPlan 20x/0.40mm, W.D.1.4mm				•	A5M.0239-20A
DIC Observation	5x/10x/20x DIC Push-Pull Group Slide			•	٠	
Marking Stage	Double Layer Mechanical Stage, Size			_		
Working Stage	185x140mm, Moving Range 35x30mm	•	•	•	•	
Stand	Metal Stand 300x240mm	•	•	٠	٠	
<b>F</b>	Coaxial Coarse & Fine Focu, With Tension					
Focusing	Adjustment And Up Stop, Fine Focusing Minimum Division 2um	•	•	•	•	
	6V30W Halogen Lamp, Brightness Adjustable	•				
		•				
Reflect	12V50W Halogen Lamp, Brightness Adjustable		•	•	•	
Illumination	Epi Illumination Intergrade Field Diaphragm, Aperture Diaphragm, Filter Switching Device For				•	
	Yellow, Blue, Green Filter & Ground Glass	•			•	
	Push-Pull Type Polarizer	•	•	•	٠	
Polarizing	Built-in Analyzer And Swithching Freely	•	•	•	•	
	0.4x C-Mount	0	0	0	0	A55.0202-1
	1.0x C-Mount	0	0	0	0	A55.0202-2
Adapter	0.5x C-Mount With Dividing 0.1mm/Div	0	0	0	0	A55.0202-3
	0.5x C-Mount	0	0	0	0	A55.0202-4
	Digital SLR Camera Adapter for Canon EF	0	0	0	0	A55.0204-1

## A13.0900 Upright Metallurgical Microscope, DIC, APO

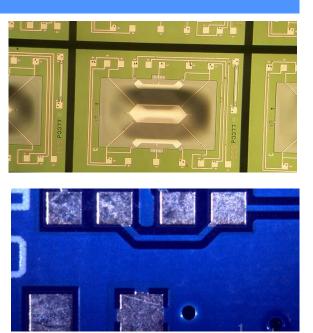






Bright Field/Oblique Light, Polarizig, DIC, Transmit Light Infinity Color Corrected Optical System Long Working Distance Infinity Plan Metallurgical DIC Achromatic/Semi-APO 4"Double Layer Mechanical Stage, Moving Range 105\*105mm Reflect Illumination, With Iris Field Diaphragm and Aperture Diaphragm, Central Adjustable





	A13.0900 DIC Metallurgical Micro	scope	Α	В
Alternative	Bright Field/Oblique Light, Polarizing, DIC		٠	
Method Of	Bright Field/Oblique Light, Polarizing, DIC, T	ransmit Light		_
Observation		-		•
Optical System	Infinity Color Corrected Optical System		•	•
Head	30° Inclined Trinocular, Splitting Ratio 100:0 d	or 50:50	•	•
Eyepiece	High Eyepoint Plan PL10x/22mm		•	•
	Long Working Distance Infinity Plan	LMPL5x/0.15 WD10.8MM	٠	•
	LMPL10x/0.3 WD10MM	•	•	
Objective	LMPL20x/0.45 WD4MM	٠	•	
	Long Working Distance Infinity Plan Metallurgical Semi-APO			
Nosepiece Reversed, Quintuple, With DIC Slot				•
Stage 4"Double Layer Mechanical Stage, Moving Range 105*105mm, With Metal Flat Stage, Right Hand Position, XY Moving Hand Wheel, with Stage Adaptor				
	4"Double Layer Mechanical Stage, Moving R Stage, Right Hand Position, XY Moving Hand	0		•
Focusing	Coaxial Coarse & Fine Focusing, Coarse Foc Precision 0.001mm,With Coarse Adjustment		•	•
Reflect Illumination, With Iris Field Diaphragm and Aperture Diaphragm, Central Adjustable, With Filter SLot and Polarizing Slot, With Oblique Illumination Switch. Single High Power 5W LED, White, Brightness Adjustable				•
	Transmitted Illumination, SIngle High Power & Adjustable, N.A.0.5 Condenser, with Iris Diap			•
Power	90-240V Wide Voltage, One Way Power Out	out	٠	
	90-240V Wide Voltage, Double Way Power C	Dutput		•

# **Optional Accessories**

	A13.0900 DIC Metallurgical M	icroscope Optional Accessories	
Eyepiece	High Eyepoint Plan PL15x/16mmPL15x16		A51.0903-1516
	High Eyepoint Plan PL10x/22mm, with Cr	oss PL10x22r,	A51.0905-1022R
	High Eyepoint Plan PL10x/22mm, Diopter Adjustable, PL10x22T		
Objective	pjective Long Working Distance Infinity Plan Metallurgical Semi-APO LMPL100X/0.8 WD2.1MM		A5M.0938-100
DIC	DIC Attachment Set		A5M.0950
Filter	Interface Filter For Reflect Illumination	Blue, <480nm	A5M.0951-B
		Green, 520~570nm	A5M.0951-G
		Red, 630~750nm	A5M.0951-R
		Natural, for White Balance	A5M.0951-LBD
Other	Specimen Presser		A5M.0920
Polarizing	Fixed Polarizer Flashboard, Dia.30mm		A5P.0920-RP
	360° Rotatable Analyser Flashboard		A5P.0920-TA
	Fixed Analyser Flashboard, Dia. 30mm		A5P.0920-RA
Adapter	0.5x C-Mount, for 1/2"CCD, Focus Adjust	able	A55.0928-50
	1.0x C-Mount, Focus Adjustable		A55.0928-10
	Digital Camera Adapter with Photo Eyepi	ece	A55.0910



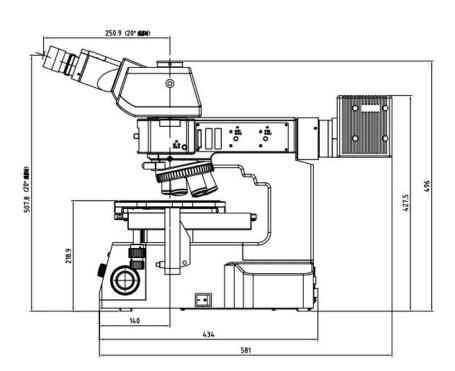
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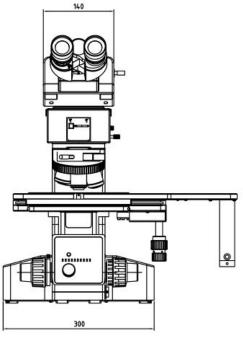
Upright Metallurgical Microscope, Transmit & Reflect BD, DIC, Semi-APO, PL





Bright/Dark Field, Polarzing, DIC, Semi-APO View Under Transmit & Reflect Light Source 5°-35° Tiltable Trinocular Head With Erect Image Light Spiltting Ratio Switch E100:P0/E0:P100 Super Wide Field Plan Eyepiece 10x/25mm, 10x/26.5mm Optional LWD Infinity Plan Metallurgical BF/DF DIC & Semi-APO Objectives 6" Large Working Stage With Moving Range 158x158mm For Reflect & 100x100mm For Transmit Light



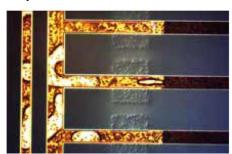


OPTO-EDU

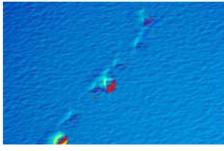
#### **DIC Observation**

Based On Orthogonality Polarizing, Insert Nomarski Dic Prism To Match Dic Observation. Using DIC Technology Can Show Obvious Emboss For The Small High-low Difference, Increase The Image Contrast. It Can Match Objectives With Dic Function To Insure The Interference Colors Same Of The Whole Field Of View. Differential Interference Result Is Excellent, And Dic Result Of High Magnification Objectives Is Good As Well.





Conductive Particles 20X DIC



LED Outer Edge 20X DIC

A13.09	01N BD DIC Semi-APO Polarizing Metallurgical Microscope	-R	-RT	Cata. No.
Optical	Bright Field, Dark Field, Polarizing, DIC, Reflect Light	•		
System	Bright Field, Dark Field, Polarizing, DIC, Transmit & Reflect Light		•	
	ETTR 5°-35° Tiltable Trinocular Head, Infinity Sedentopf, Interpupillary			
Head	Distance 50~76mm, Light Spiltting Ratio Switch E100:P0/E0:P100, Erect	•	•	A53.0911-T535
	Image			
	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0931-05
CCD Adapter	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	0		A55.0931-35
	0.65X C-Mount, For 1/2°CCD, Focus Adjustable	0		A55.0931-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	0	0	A55.0931-10
	High Eyepoint Plan PL10x/22mm	••	••	A51.0903-1022
	High Eyepoint Plan PL10x/22mm With Reticle	0	0	A51.0905-1022R
Eyepiece	High Eyepoint Plan PL10x/22mm, Diopter Adjustable	0	0	A51.0904-1022T
Lyepiece	High Eyepoint Plan PL10x/22mm, Diopter Adjustable, With Reticle			A51.0905-1022RT
	High Eyepoint Plan PL10x/23mm, Diopter Adjustable	0	0	A51.0904-1023T
	High Eyepoint Plan PL15x/16mmPL15x16	0	0	A51.0903-1516
	LWD Infinity Plan Metallurgical BF/DF DIC Objective			
	LMPLAN-BD 5X-DIC LMPL5X/0.15 W.D.9mm	•		A5M.0939-5
	LMPLAN-BD 10X-DIC LMPL10X/0.3 W.D.9mm	•	•	A5M.0939-10
Objective	LMPLAN-BD 20X-DIC LMPL20X/0.50 W.D.3.4mm	•	•	A5M.0939-20
	LWD Infinity Plan Metallurgical BF/DF Semi-APO Objective			
	LMPLAN-BD 50x LMPLFL50X/0.55 W.D.7.5mm	•	•	A5M.0940-50
	LMPLAN-BD 100x LMPLFL100X/0.80 W.D.2.1mm	0	0	A5M.0940-100
Nosepiece	Backward, Quintuple For Bright/Dark Field, With DIC Slot	•		A54.0930-MX5BD
DIC	DIC Interfere Set	0	0	A5M.0950
	6" Three Layer Mechanical Stage, For Transmit & Reflect Light			
	Size 445*240mm, Moving Range For Reflect Light 158*158mm, For	•		A54.0944-M6RT
	Transmit Light 100*100mm, Low Position X/Y Moving Handle, With	•	•	A34.0944-IMOR I
	Glass Plate, With Clutch Handle To Move Quickly In Full Range			
	Adapter for 4" Plate, for Reflect Light	0	0	A54.0944-M4A
	Adapter for 4" Plate, for Transmit & Reflect Light	0	0	A54.0944-M4ART
	4" Double Layer Mechanical Stage, For Reflect Light, Low Position			
Working	Handle, Size 230x215mm, Moving Range For Reflec Light 105*105mm,	0	0	A54.0944-M4
Stage	With Metal Plate, Right Hand Use			
	4" Double Layer Mechanical Stage, For Reflect Light, Low Position			
	Handle, Size 230x215mm, Moving Range For Reflec Light 105*105mm,	0	0	A54.0944-M4N
	With Metal Plate, Left Hand Use			
	4" Double Layer Mechanical Stage, For Transmit & Reflect Light, Low			
	Position Handle, Size 230x215mm, Moving Range For Reflec Light	0	0	A54.0944-M4RT
	105*105mm, With Glass Plate			
	Rotatable Working Stage 6", For Wafer 4", 5", 6"	0	0	A54.0944-W6

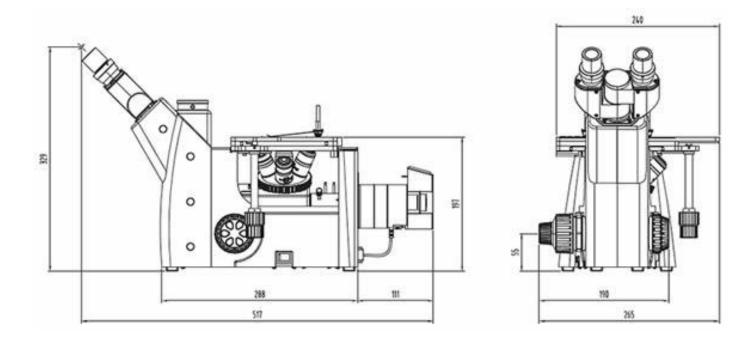
	Reflected Frame: Coaxial Coarse And Fine Adjustment, Coarse Range			
	33mm, Fine Precision 0.001mm, With Pp-limited Device And Tension	•		
	Adjustment. Built-in 90-240V Wide Voltage Transformer.	<b>–</b>		
Main Body &	Transmitted & Reflected Frame: Coaxial Coarse And Fine Adjustment,			
Focusing	Coarse Range 33mm, Fine Precision 0.001mm, With Up-limited Device			
	And Tension Adjustment. Built-in 90-240V Wide Voltage Transformer,		•	
	Transmitted Lamp-house With Single 5W LED. With NA 0.5 Condenser.			
	BF/DF Reflect Illumination, With Iris Field Diaphragm and Aperture			
	Diaphragm, Both Central Adjustable, With Filter Slot and Polarizing Slot,			
	With Bright Field/Dark Field Switch, With Bright Intensity Setting And	•	•	A56.0915
	Reset Function On Stand			
Reflect	12V100W Halogen Light Box, Pre Centered	•	•	A56.0909-LH
Light	12V100W Halogen Bulb (Philps 7724)	•	•	A56.0923-12100
Light	Interference Filter, For Reflect Light, Netural White	•	•	A5M.0953-LBD
	Interference Filter, For Reflect Light, Blue, <480nm	0	0	A5M.0953-B
	Interference Filter, For Reflect Light, Green, 520~570nm	0	0	A5M.0953-G
	Interference Filter, For Reflect Light, Red, 630~750nm	0	0	A5M.0953-R
Transmit	Transmit Illumination, Single High Power 5W LED, Brightness Adjustable,	-	-	
Light	N.A.0.5 Condenser, With Iris Diaphragm		•	
•		•	•	A5P.0924-RP
Polarizing For	Fixed Polarizer Flashboard 360° Rotatable Analyzer Flashboard	•	•	A5P.0924-RA360
Reflect Light	Fixed Analyzer Flashboard		0	A5P.0924-RA
	90-240V Wide Voltage, One Way Power Output	•		
	90-240V Wide Voltage, Double Way Power Output		•	
	Allen Key M3	•	•	
Other	Allen Key M4	•	•	
	Specimen Presser	0	0	A5M.0920
	New Developed Optional Accessories 2020			
	Trinocular Head, 30° Inclined, Inverted Image, Interpupillary Distance			
	50~76mm, Light Split Ratio 0:100; 20:80; 100:0, Support Super Large	0	0	A53.0913-T30
Head	Wide Field Eyepiece 25mm/26.5mm			
Tieau	Trinocular Head, 30° Inclined, Erect Image, Interpupillary Distance			
	50~76mm, Light Split Ratio 0:100, 100:0, Support Super Large Wide	0	0	A53.0913-T30E
	Field Eyepiece 25mm/26.5mm			
	High Eyepoint Plan PL10x/25mm, Diopter Adjustable	0	0	A51.0904-1025T
Eyepiece	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable	0	0	A51.0904-10265
Lyopicco	High Eyepoint Plan PL10x/25mm, Diopter Adjustable, With Reticle	0	0	A51.0905-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable, With Reticle	0	0	A51.0905-10265
	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0930-05
CCD Adapter	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0930-35
	0.65X C-IVIOUNT, FOF 1/2 CCD, FOCUS Adjustable	0	0	A55.0930-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	0	0	A55.0930-10
	LWD Infinity Plan Metallurgical BF/DF DIC Semi-APO Objective			
	5X/0.15, WD=13.5mm	0	0	A5M.0941-5
	10X/0.30, WD=9mm	0	0	A5M.0941-10
			_	A5M.0941-20
Objective	20X/0.50, WD=2.5mm	0	0	
Objective	20X/0.40, WD=8.5mm	0	0	A5M.0941-20A
Objective	20X/0.40, WD=8.5mm 50X/0.80, WD=1.0mm			A5M.0941-20A A5M.0941-50
Objective	20X/0.40, WD=8.5mm 50X/0.80, WD=1.0mm 100X/0.90, WD=1.0mm	0	0	A5M.0941-20A A5M.0941-50 A5M.0941-100
Objective	20X/0.40, WD=8.5mm 50X/0.80, WD=1.0mm 100X/0.90, WD=1.0mm Semi-APO Objective With Correcting Ring 50X/0.70, WD=2.3~2.9mm	0	0	A5M.0941-20A A5M.0941-50 A5M.0941-100 A5M.0945-50
Objective	20X/0.40, WD=8.5mm 50X/0.80, WD=1.0mm 100X/0.90, WD=1.0mm	0 0 0	0 0 0	A5M.0941-20A A5M.0941-50 A5M.0941-100



## A13.0905 Inverted Metallurgical Microscope



Long Working Distance Plan Metallurgical Achromatic,Semi-APO Triple Layer Working Stage, Size 180\*155mm, Moving Range 75\*40mm Swing-out Condenser N.A.0.7, for Transmit Light Reflect Kohler Illumination, with View Field Diaphragm, with Iris Diaphragm, Center Adjustable, 5W LED, Warm Light, Brightness Control Blue Filter, Dia.32mm



	A13.0905 Metallurgical Microscope				
Head	Compensation Free Trinocular Head, 45° Inclined, 360° Rotatable, Interpa 54~75mm, Diopter Adjustable, Light Split 8:2	pillary Distance			
Eyepiece	High Eyepoint Plan PL10x/18mm,				
Objective	Long Working Distance Plan Metallurgical Achromatic	LMPL5X/0.15 LMPL10X/0.3 LMPL20X/0.4			
	Long Working Distance Plan Metallurgical Achromatic, Semi-APO	LMPL50X/0.6			
Stage	age Triple Layer Working Stage, Size 180*155mm, Moving Range 75*40mm				
	Metal Plate, Center Hole Dia.25mm				
	Metal Plate, Center Hole Dia.12mm				
Focusing	Low Position Coaxial Coarse & Fine Focusing, Coarse Focus Range 38mi Precision 0.002mm, with Tension Adjustment, with Up-limited Stop	n, Fine Focusing			
Condenser	Swing-out Condenser N.A.0.7, for Transmit Light				
Filter	Blue Filter, Dia.32mm				
Illumination	Reflect Kohler Illumination, with View Field Diaphragm, with Iris Diaphragn 5W LED, Warm Light, Brightness Control	n, Center Adjustable,			
Power	90-240V Wide Range Power Supply				

# **Optional Accessories**

	A13.0905 Metallurgical Microscope Optional Accessorie	s
Eyepiece	Wide Field Eyepiece WF15x/13mm	A51.0902-1513
	Wide Field Eyepiece WF20x/10mm	A51.0902-2010
	Wide Field Eyepiece WF15x/13mm with Retical	A51.0905-1513R
	Wide Field Eyepiece WF20x/10mm with Retical	A51.0905-2010R
	High Eyepoint Plan PL10x/18mm, with Cross PL10x18	A51.0905-1018PR
Objective	Long Working Distance Infinity Plan Metallurgical Achromatic, Semi-APO LMPL100X/0.8	A5M.0934-100
Filter	Yellow,Dia.32mm	A56.0935-XDY
	Green,Dia.32mm	A56.0935-XDG
	Netural,Dia.32mm	A56.0935-XDF
Polarizing	Polarizer	A5P.0922-P
	Analyser,360° Rotatable	A5P.0922-A
Adapter	1.0x C-Mount	A55.0929-10
	0.5x C-Mount, for 1/2"CCD	A55.0929-50
	Digital Camera Adapter with Photo Eyepiece	A55.0910
	Photo Adapter with 3.2x Photo Eyepiece, PK or MD Mount	A55.0901-4

### A13.0909 Metallurgical Microscope





Newly Designed Integrative Y Shape Full Metal Body High Stability No Image Dithering Compensation Trinocular Head, 30° Inclined, 360° Rotatable LWD Infinity Plan Achromatic Metallurgical Objectives 5x,10x,20x,50x,100x (Optional) Double Layer Mechanical Stage 175x145mm, Moving Range 76\*42mm A Reflect Light 5W LED, B Transmit & Reflect Light Both 5W LED







Newly Designed Integrative Y Shape Body, All Metal Diecasted Under High Pressure, High Stability, No Image Dithering Under High Magnification Observation,

	A13.0909 Metallurgical Microscope Specification	Α	В	
Optical System	Infinity Color Corrected Optical System	,		
Head	Compensation Trinocular Head, 30° Inclined, 360° Rotatable, Interpupilla	ry Distance	<del>)</del> 54-	
neau	75mm, Splitting Ratio R:T=100:0 or 0:100, Diopter +/-5 Adjustable.			
Eyepiece	High Eye-point Wide Field Plan Eyepiece PL10x22mm			
	LWD Infinity Plan Achromatic Metallurgical Objectives			
	5x LMPL5x/0.15, WD10.8mm			
Objective	10x LMPL10x/0.3, WD12.2mm			
	20x LMPL20x/0.45, WD12.2mm			
	50x LMPL50x/0.55, WD7.9mm			
Nosepiece	5 Holes Revolving Nosepiece, Backward			
Focusing	Coaxial Focus System With Upper Limited And Tension Adjustment; Coa	rse Range	25mm;	
	Fine Precision 0.002mm			
	For Reflect Light			
	Double Layer Mechanical Stage 175x145mm, Moving Range 76*42mm,	•		
	X/Y Moving Coaxial Adjustment, With <b>Metal</b> Plate, Up/Down Range			
Working Stage	Accept <b>78</b> mm High Sample			
	For Transmit & Reflect Light			
	Double Layer Mechanical Stage 175x145mm, Moving Range 76*42mm,		•	
	X/Y Moving Coaxial Adjustment, With <b>Glass</b> Plate, Up/Down Range			
	Accept <b>28</b> mm High Sample			
	Reflect Light			
	Lamp House With Single 5W LED, Warm Color, Koehler Illuminator WIth			
	Oblique Light Device, Center Adjustable Field And Aperture Diaphragm,	•	•	
	Interference Filter : Blue <480nm, Green 520~570nm, Red 630~750nm,			
Light Source	White Balance			
	Transmit Light			
	Lamp House With Single 5W LED, Warm Color, Filter: Yellow, Neutral, IF550, LBD, Condenser N.A. 0.9 Swing-out Achromatic Condenser For		•	
	Transmit Light, With Center Adjustable Aperture Iris Diaphragm			
Power	Wide Range Voltage 100~240V AC 50/60Hz			
OWEI	Optional Accessories			
		AE1 0005	40000	
Eyepiece	High Eye-point PL10x/22mm with Micrometer, Diopter Adjustable	A51.0905		
	High Eye-point PL15x/16mm	A51.0903	01010	
Objective	LWD Infinity Plan Achromatic Metallurgical Objectives	A5M.0954-100		
	100X LMPL100X/0.8, WD2.1mm		10	
	1x C-Mount, Focus Adjustable	A55.0926		
CCD Adapter	0.50x, For 1/2" C-Mount, Focus Adjustable	A55.0926-50		
	0.67x, For 2/3" C-Mount, Focus Adjustable	A55.0926	-67	

# A13.0910

Upright Metallurgical Microscope, BD, DIC, Semi-APO, Polarizing





Bright/Dark Field, Polarzing, DIC, Semi-APO View Under Transmit & Reflect Light Source 30° Trinocular Head With Erect Image Light Spiltting Ratio Switch E100:P0/E0:P100 Super Wide Field Plan Eyepiece 10x/25mm, 10x/26.5mm Optional LWD Infinity Plan Metallurgical BF/DF DIC & Semi-APO Objectives 4" Large Working Stage With Moving Range 105\*102mm For Reflect & Transmit Light

PTO.E

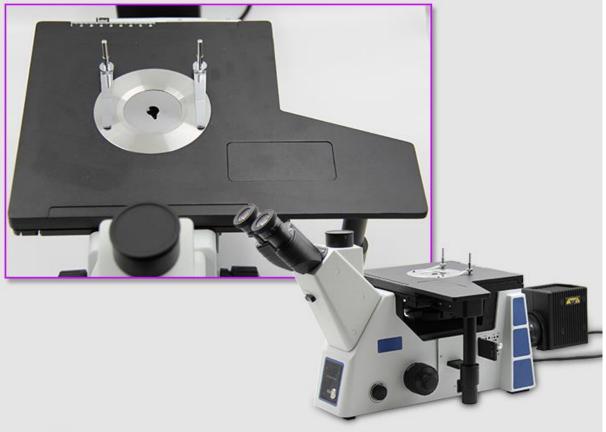
A13.0910	BD DIC Semi-APO Polarizing Metallurgical Microscope	R	RT	Cata. No.
Optical System	Bright Field, Dark Field, Polarizing, DIC, Reflect Light	•		
Oplical System	Bright Field, Dark Field, Polarizing, DIC, Transmit & Reflect Light		•	
	30° Inclined Erect Image Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm, Light Spiltting Ratio Switch E100:P0/E0:P100,	•	•	A53.0913-T30E
Head	30° Inclined, Invert Image Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm; Light Splitting Ratio Switch R:T=100:0 or 20:80 or 0:100	0	0	A53.0913-T30
	5-35° Tiltable, Inverted Image, Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm; Light Splitting Ratio 50:50 or 100:0 or 0:100	0	0	A53.0913-T535
	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0930-05
	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0930-35
CCD Adapter	0.65x C-Mount, For 1/2"CCD, Focus Adjustable	0	0	A55.0930-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	0	0	A55.0930-10
	High Eyepoint Plan PL10x/25mm, Diopter Adjustable	••	••	A51.0904-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable	0	0	A51.0904-10265T
Eyepiece	High Eyepoint Plan PL10x/25mm, Diopter Adjustable, With Reticle	0	0	A51.0905-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable, With Reticle	0	0	A51.0905-10265T

	LWD Infinity Plan Metallurgical BF/DF DIC Semi-APO Objective			
	5x/0.15, W.D.=19.5mm	•	•	A5M.0941-5
	10x/0.30, W.D.=9mm	٠	•	A5M.0941-10
	20x/0.50, W.D.=2.5mm	٠	•	A5M.0941-20
	20x/0.40, W.D.=8.5mm	0	0	A5M.0941-20A
	50x/0.80, W.D.=1.0mm	•	•	A5M.0941-50
	100x/0.90, W.D.=1.0mm	•	•	A5M.0941-100
Objective	LWD Infinity Plan Metallurgical BF DIC Semi-APO Objective			
	5x/0.15, W.D=19.5mm	0	0	A5M.0942-5
	10x/0.30, W.D=10.9mm	0	0	A5M.0942-10
	20x/0.50, W.D.=3.20mm	0	0	A5M.0942-20
	50x/0.80, W.D.=1.20mm	0	0	A5M.0942-50
	100x/0.90, W.D.=1.0mm	0	0	A5M.0942-100
	Semi-APO Objective With Correcting Ring 50X/0.70,			
	WD=2.3~2.9mm	0	0	A5M.0945-50
	BD Sextuple Nosepiece (With DIC Slot)	•	•	A54.0930-RM6B
Necesiaco	BD Quintuple Nosepiece (With DIC Slot)	0	0	A54.0930-RM5B
Nosepiece	Bright Field Sextuple Nosepiece(With DIC Slot)	0	0	A54.0930-RM6
	Bright Field Septuple Nosepiece(With DIC Slot)	0	0	A54.0930-RM7
DIC	DIC Attachment, Apply For BD Objective	0	0	A5M.0952
	4" Three Layer Mechanical Stage, For Transmit & Reflect Light			
	Moving Range 102*105mm, Low Position X/Y Moving Handle,	•	•	A54.0947-M4
Working Stage	With Glass Plate For RT Model, With Metal Plate For R Model			
	Rotatable Working Stage 4", For Wafer 2", 3", 4"	0	0	A54.0947-W234
	Reflected Body, Low-Position Coaxial Coarse And Fine			
	Adjustment, Coarse Adjustment Distance: 25mm; Fine Precision:			
	0.001Mm. With Coarse Adjustment Stop And Tightness	•		
	Adjustment. Built-In 100-240V Wide Voltage Transformer.			
	Intensity Adjustable By Digital Set And Reset.			
Main Body &	Reflected/Transmitted Body, Low-Position Coaxial Coarse And			
Focusing	Fine Adjustment, Coarse Adjustment Distance: 25mm; Fine			
	Precision: 0.001Mm. With Coarse Adjustment Stop And			
	Tightness Adjustment. Built-In 100-240V Wide Voltage		•	
	Transformer, Double-Way Power Output. Intensity Adjustable By			
	Digital Set And Reset; Switch For Reflection And Transmission,			
	Built-In Transmitted Filters Lbd/Nd6/Nd25)			
	BF/DF Reflect Illumination, With Iris Field Diaphragm and			
	Aperture Diaphragm, Both Central Adjustable, With Filter Slot	•	•	A56.0915
	and Polarizing Slot, With Bright Field/Dark Field Switch			
Reflect	12V100W Halogen Light Box, Pre Centered	•		A56.0909-LH
Light	12V100W Halogen Bulb (Philps 7724)	•	••	A56.0923-12100
g	Interference Filter, For Reflect Light, Netural White	•	•	A5M.0953-LBD
	Interference Filter, For Reflect Light, Blue, <480nm	0	0	A5M.0953-B
	Interference Filter, For Reflect Light, Green, 520~570nm	0	0	A5M.0953-G
	Interference Filter, For Reflect Light, Red, 630~750nm	0	0	A5M.0953-R
	Transmit Illumination,12V100W Halogen Light Box, Pre		•	A56.0909-LH
Transmit	Centered			
Light	12V100W Halogen Bulb (Philps 7724)	•	••	A56.0923-12100
	Swing-out Type Achromatic Condenser (NA 0.9)		•	A56.0934-R
Polarizing For	Fixed Polarizer Flashboard	•	•	A5P.0924-RP
Reflect Light	360° Rotatable Analyzer Flashboard	•	•	A5P.0924-RA36
	Fixed Analyzer Flashboard	0	0	A5P.0924-RA
Bower	90-240V Wide Voltage, One Way Power Output	•		
Power	90-240V Wide Voltage, Double Way Power Output		•	
	Allen Key M3	•	•	
Other	Allen Key M4	•	•	
-	Specimen Presser	0	0	A5M.0920
		1	1	

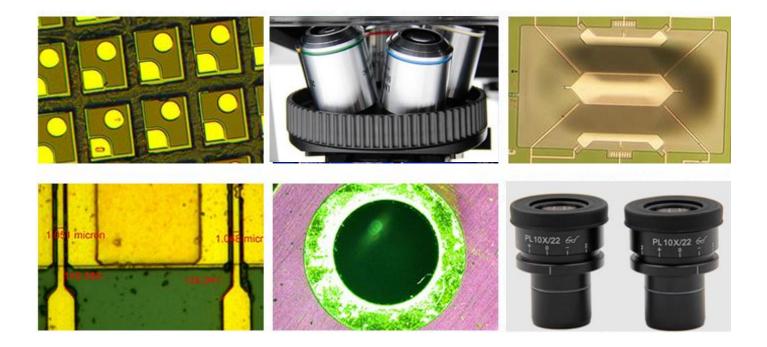
# A13.0912 Inverted Metallurgical Microscope



Infinity Color Corrrected Optical System One-piece Construction,With Filter Slot & Polarizing Slot Bright & Dark Filed, With BD Shifter BD Quintuple Nosepiece With DIC Slot Polarizer & 360° Analyzer



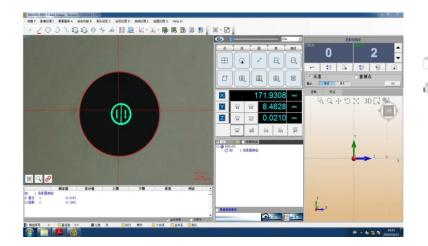
 Right Hand Controls, Low Positioned, Three-Layer Mechanical stage, size 240x250mm, moving range 50x50mm, Bothway Linear Guide Rail



A13.0912-A Inverted Metallurgical Microscope					
Optical	Infinity Color Corrected Optical System				
Frame	One-piece Construction, With Filter Slot & Polarizing Slot				
Head	Trinocular Head, Split Ratio 100:0 or 0:100, 45° Inclined, 360° Rotatable, IPD 50-75mm				
Eyepiece	Plan WF10x/22mm, Diopter Adjustable, Reticle Attachable, High Eye-point				
Field	Bright & Dark Filed, With BD Shifter				
Objective	Infinity LWD BD Plan Achromatic Metallurgical Objective DIC-5x/0.15 WD11mm				
	Infinity LWD BD Plan Achromatic Metallurgical Objective DIC-10x/0.3 WD9.5mm				
	Infinity LWD BD Plan Achromatic Metallurgical Objective DIC-20x/0.45 WD3.4mm				
	Infinity LWD BD Plan Achromatic Metallurgical Objective 50x/0.55 WD7.5mm				
Focus	Coaxial Coarse & Fine Focusing System With Adjustable Tension, Coarse Range 9mm (6.5mm up & 2.5mm down), Fine Precision 2µm				
Nosepiece	BD Quintuple Nosepiece With DIC Slot				
Stage	Right Hand Controls, Low Positioned, Three-Layer Mechanical Stage, Size 240x250mm, Moving Range 50x50mm, Bothway Linear Guide Rail				
	Metal Specimen Holder (Dia. 25)				
	Reflected Halogen Lamp, 12V100W				
Light Source	Light Indicator				
	Brightness Adjustable				
	ECO Infared Induction System (Auto on/off)				
	External Wide Voltage Transformer, 100V-240V Input, 12V13.4A Output				
Polarzation	Polarizer & 360° Analyzer				
	Optional Accessories				
Eyepiece	Plan WF15X/16mm, Diopter Adjustable, High Eye-point	A51.0904-1516T			
Objective	Infinity LWD BD Plan Achromatic Metallurgical Objective	A5M.0943-100			
	0.35x C-Mount	A55.0934-35			
Adapter	0.5x C-Mount	A55.0934-05			
	0.65x C-Mount	A55.0934-65			
	1x C-Mount	A55.0934-1			
DIC	DIC Slider	A5M.0952-2			

# A13.0921 Precision Measuring Metallurgical Microscope, BD, DIC

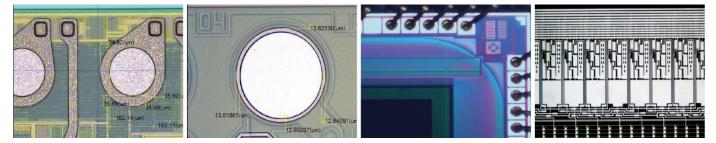




Precise 3D Measuring 0.1um For X/Y/Z Axies With Motorized Optical Grating Ruler Reversed Quintuple Nosepiece, With DIC Slot, For Bright & Dark Field Long Working Distance Infinity Plan Achromatic BD Metallurgical Objective Large Size Manual Stage, With Digital Indicator. Z Axis With Auto-control Box For Focusing Include Simple & Powerful Measure Software Used In Computer

#### Wide Field Usage

Dimension Measurement of IC Advanced Packaging Bumping Alignment Accuracy Measurement of IC Advanced Packaging Bumping Measurement of PCB Solder Pin Measurement of LCD Panel TFT





#### **Precision Measuring Tool**

A13.0921 Measuring Microscope use 3D X/Y/Z measuring system with 0.1um reading, the high precision grating ruler integrated in the rack is imported from Japan. The z-axis is controlled by a high-precision electric controller, with 3 speeds available, focusing maneuverability, improve efficiency, reduce cost, and low fatigue.

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A13.092	21 Precision Measuring Metallurgical Microscope, BD, DIC	-21	-32	-33		
Magnification	Optical Magnification 50x~1000x, Total Magnification 135x~2700x					
Eyepiece	High Eyepoint Plan Eyepiece PL10x/22mm, Diopter Adjustable					
Head	5°~35° Infinity Gemel Trinocular Head, Erect Image, 360° Rotating, Interpupillary Range 50~76mm; Light Spliting Ratio Switch E0:P100/E100:P0					
	Long Working Distance Infinity Plan Achromatic Metallurgical Objective					
	5x-DIC_LMPL5x/0.15_W.D.10.8mm					
	10x-DIC LMPL10x/0.3 W.D.12.20mm					
	20x-DIC LMPLanFL20x/0.4 W.D.8.8mm, Semi-APO					
	50x LMPLFL50x/0.55 W.D.7.9mm					
Objective	100x LMPLFL100x/0.80 W.D.2.1mm	0	0	0		
-	Long Working Distance Infinity Plan Achromatic BD Metallurgical Ob	Ī				
	5x-DIC/0.15 W.D.9.0mm	0	0	0		
	10x-DIC/0.3 W.D.9.0mm	0	0	0		
	20x-DIC/0.4 W.D.8.5mm, Semi-APO	0	0	0		
	50x/0.55 W.D.7.5mm	0	0	0		
	100x/0.80 W.D.2.1mm	0	0	0		
DIC	DIC Prism (Reflection)	0	0	0		
Nosepiece	Reversed Quintuple Nosepiece, With DIC Slot, For Bright Field					
	Reversed Quintuple Nosepiece, With DIC Slot, For Bright & Dark Field	0	0	0		
	Manual Stage, <b>Moving Range 200mm(X) x 100mm(Y)</b> , With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2µm (20x Objective), With 5W LED Transmitted Illumination	•				
Working Stage & Illumination	Manual Stage, <b>Moving Range 300mm(X) x 200mm(Y)</b> , With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2µm (20x Objective), With 5W LED Transmitted Illumination		•			
	Manual Stage, <b>Moving Range 300mm(X) x 300mm(Y)</b> , With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2µm (20x Objective), With 5W LED Transmitted Illumination			•		
Table	Table For Machine					
Illumination	Reflect Bright & Dark Field Illumination, With BD Switch Device; With Filter Slots For Filters And Polarizing Kit; 5W LED, Intensity Adjustable;					
Focusing	Focus Assist Controlled By High-Precision Electric Controller, With 3 Speeds Available, With Double Reticle; Focusing Range >400mm					
Polarizing	Polarizer Slide For Reflect Illumination 360° Rotatry Analyser Slide For Reflect Illumination					
Adapter	0.5x C-Mount, Focus Adjustable 0.65x C-Mount, Focus Adjustable	0	0	0		
Digital Camera	1.2M Digital Camera, Pixel 1280(H) x 960(V); 60fps; Interface Gige; Sens	or CN	IOS (C	Color)		
Software	MSU3D-Pro Measurment software					
Computer	DELL 3470, Intel i5 Commercial Office, Desktop Computer (i5-9400 8G 1T WIFI) 21.5" Monitor					
Spanner	Spanner M5 Spanner M4					
Packing	Foam+ Master Carton					
Micrometer	High Quality Micrometer Slide 0.01mm	0	0	0		

# A13.1005

Metallurgical Microscope, Bright Field/Dark Field



Siedentopf Trinocular Viewing Head, Inclined At 30° Interpupillary 48-75mm Coaxial Coarse And Fine Adjustment, Fine Division 1µm, Moving Range 32mm Size Of The Soleplate 396X276X22mm, The Height Of Post 300mm, The Diameter Of Post 30mm DIC 20X/100X; EW10X/22 Φ30

A	13.1005 Metallurgical Microscope	A13.1005-B	A13.1005-BD	Cata. No.
Optical System	Infinite Optical System			
Eyepiece	EW10X/22 Ф30			A51.1003-1022
	5X/0.12/∞/-(BF) LWD 15.5mm			A5M.1035-5
Infinite	10X/0.25/∞/-( BF) LWD 10mm			A5M.1035-10
Plan Achromatic	20X/0.4/∞/0(BF) LWD 5.8mm			A5M.1035-20
Objective	50X/0.75/∞/0(BF) LWD 0.32mm			A5M.1035-50
	100X/0.8/∞/0(BF) LWD 2mm	•		A5M.1035-100
	5X/0.12/∞/-(BF/DF) LWD 15.5mm		•	A5M.1036-5
Infinite	10X/0.25/∞/-( BF/DF) LWD 10mm		•	A5M.1036-10
Plan Achromatic	20X/0.4/∞/0(BF/DF) LWD 5.8mm			A5M.1036-20
Objective	50X/0.75/∞/0(BF/DF) LWD 0.32mm			A5M.1036-50
	100X/0.8/∞/0(BF/DF) LWD 2mm			A5M.1036-100
DIC	20X/100X	0	0	A5M.1040
Head	Siedentopf Trinocular Viewing Head, Inclined 30° Interpupillary 48-75mm	•	•	
	24V/100W Halogen Light, Lightness Adjustable			
	150W Cold Light, Lightness Adjustable	0	0	
Incident Light	40WLED Cold Light, Lightness Adjustable	0	0	
Ū	Polarizer And Analyzer	0	0	A5P.1002
	Blue, Green, Yellow and Ground Glass			
Focusing	Coaxial Coarse And Fine Adjustment, Fine Division 1µm, Moving Range 32mm	•	•	
Nosepiece	Backward Qunituple Nosepiece			
Stand	Size Of The Soleplate 396X276X22mm, The Height Of Post 300mm, The Diameter Of Post 30mm	•	•	
Photo Attachment	For SLR Camera, Specify NiKon/Canon When	0	0	A55.1001
Video Attachment	C Mount 1X	0	0	A55.1002-10
	s Standard Outfits,"o" Is Optional Accessories "-" Is U	Inavailable	1	

A13.1	005 Metallurgical Microscope	A13.1005-B	A13.1005-BD	Cata. No.
Optical System	Infinite Optical System			
Eyepiece	EW10X/22 Ф30		$\bullet$	A51.1003-1022
	5X/0.12/∞/-(BF) LWD 15.5mm			A5M.1035-5
Infinite	10X/0.25/∞/-( BF) LWD 10mm			A5M.1035-10
Plan Achromatic	20X/0.4/∞/0(BF) LWD 5.8mm			A5M.1035-20
Objective	50X/0.75/∞/0(BF) LWD 0.32mm			A5M.1035-50
	100X/0.8/∞/0(BF) LWD 2mm			A5M.1035-100
	5X/0.12/∞/-(BF/DF) LWD 15.5mm			A5M.1036-5
Infinite	10X/0.25/∞/-( BF/DF) LWD 10mm			A5M.1036-10
Plan Achromatic	20X/0.4/∞/0(BF/DF) LWD 5.8mm			A5M.1036-20
Objective	50X/0.75/∞/0(BF/DF) LWD 0.32mm			A5M.1036-50
	100X/0.8/∞/0(BF/DF) LWD 2mm			A5M.1036-100
DIC	20X/100X	0	0	A5M.1040
Head	Siedentopf Trinocular Viewing Head,			
	Inclined 30° Interpupillary 48-75mm	•		
	24V/100W Halogen Light, Lightness			
	Adjustable	•		
Incident Light	150W Cold Light, Lightness Adjustable	0	0	
	40WLED Cold Light, Lightness Adjustable	0	0	
	Polarizer And Analyzer	0	0	A5P.1002
	Blue, Green, Yellow and Ground Glass	•	•	
Focusing	Coaxial Coarse And Fine Adjustment, Fine			
	Division 1µm, Moving Range 32mm			
Nosepiece	Backward Qunituple Nosepiece		•	
	Size Of The Soleplate 396X276X22mm, The			
Stand	Height Of Post 300mm, The Diameter Of			
	Post 30mm			
Photo Attachment	For SLR Camera, Specify NiKon/Canon	0	0	A55.1001
	When Order	_		
Video Attachment	C Mount 1X	0	0	A55.1002-10
Note:" <ul><li>"In Table Is S</li></ul>	tandard Outfits,"o" Is Optional Accessories "-"	Is Unavailable	9	

# A13.1013 Metallurgical Microscope, BF/DF, PL, DIC

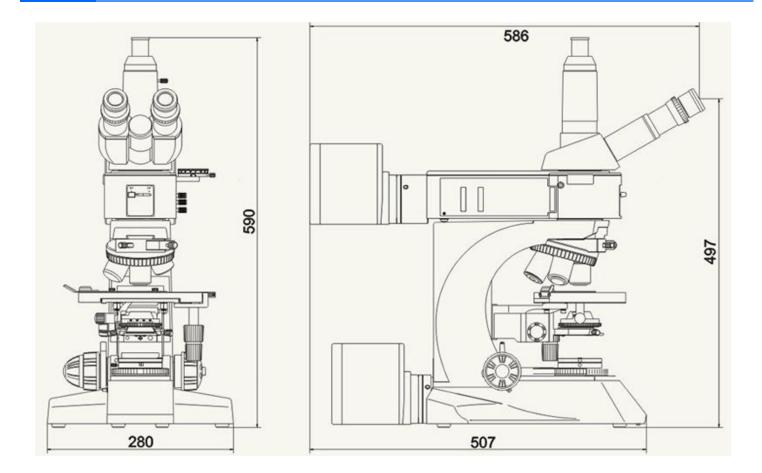




Bright Field / Dark Field Switch Knob

Infinity Optical System, Bright Field/Dark Field, DIC, Polarizing Total Magnification 50x-1000x With Infinity Plan BF/DF Objectives Double Layer Mechanical Stage 186\*138mm, Moving Range 74\*50mm Maximum Sample Height 30mm/50mm, With Specimen Preparation Plate Reflect, Transmit/Reflect 24V 100W Halogen Light Kohler Illumination

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# **Product Specification**

Items	A13.1013 BF/DF DIC Metallurgical Microscope	Α	В		
Optical System	Infinity Optical System, Bright Field/Dark Field, DIC, Polarizing				
Head	Seidentopf Trinocular Head Inclined at 30°, Interpupillary 48-75mm				
Eyepiece	Extra Wide Field Eyepiece EW10x/22mm, Eyepiece Tube Dia.30mm				
Nosepiece	Backward Quintuple Nosepiece				
	Infinity Plan Achromatic Objectives 5x/ 0.12/ ∞/ - (BF/DF),W.D.12mm				
	Infinity Plan Achromatic Objectives 10x/ 0.25/ ∞/ - (BF/DF),W.D.10mm				
	Infinity Plan Achromatic Objectives 20x/ 0.4/ ∞/0 (BF/DF),W.D.4.3mm				
Objective	Infinity Plan Achromatic Objectives 50x/ 0.75/ ∞/0 (BF/DF),W.D.0.32mm				
	Infinity Plan Achromatic Objectives100x/0.80/∞/0 (BF/DF),W.D.2mm				
	Infinity Plan Achromatic Objectives 40x/0.65/∞/0.17,W.D.0.54mm		0		
	Infinity Plan Achromatic Objectives 100x/1.25/∞/0.17,W.D.0.13mm		0		
Focusing	Coaxial Coarse & Fine Adjustment, Fine Focusing Precision <1um, With Safty Stop, V Adjustment	With Ten	sion		
Working Stage	Maximum Sample Height 30mm Double Layer Mechanical Stage 186*138mm, Moving Range 74*50mm, Including: Specimen Preparation Plate Slide Glass		ο		
	Maximum Sample Height 50mm Non-Porous Double Layer Mechanical Stage 186*138mm, Moving Range 74*50mm	ο			
Reflect Illumination	24V 100W Halogen Light, Brightness Adjustable Kohler Illumination With Aspherical Condenser Polarizer & Analyzer, Intergrate Board For Polarizer & Analyzer Blue, Green, Yellow Filter, Gound Glass				
Transmit Illumination	Swing-Out Condenser N.A.0.9/0.25 24V 100W Halogen Light With Aspherical Condenser Blue Filter		0		

# **Optional Accessories**

	A13.1013 BF/DF DIC Metallurgical Microscope Optional Acces	sories
Objective	Infinity Plan Achromatic Objectives 40x/0.6/∞/0 (BF/DF),W.D.2.9mm	A5M.1036-40
DIC	20x, 100x DIC Slide	A5M.1040
Polarizing	Polarizer & Analyzer, Intergrate Board For Polarizer & Analyzer   For Reflect Illumination	A5P.1002
Filter	Netural Filter ND25	A5F.1011-25
Filler	Netural Filter ND6	A5F.1011-6
	Photo Adapter, For Nikon or Canon SLR Camera	A55.1001
Adaptor	C-Mount 1.0x	A55.1002-10
	C-Mount 0.5x	A55.1002-05
Other	Specimen Presser	A5M.1010

# A13.1017 Metallurgical Microscope, Reflect Light

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Upright Reflect Metallurgical Microscope Total Magnification 40x-400x With LWD Infinity Objective Non-Porous Mechanincal Stage 150x140mm/75x50mm Reflect Light 6V/20W Halogen Kohler Illumination Related Model Transmit/Reflect Version A13.1018

## **Product Specification**

	Specification A13.1017	Α	В			
Head	Binocular Head	•				
neau	Trinocular Head		•			
Eyepiece	WF10x/18		·			
Nosepiece	Quadruple Nosepiece					
Objective	Infinity Plan Achromatic Objectives 4×/0.1/∞/- WD17.3mm					
	Infinity Plan Achromatic Objectives 10×/0.25/∞/- WD10.0mm					
	Infinity Plan Achromatic Objectives 40×/0.60/∞/0 WD2.9mm					
Focusing	Coaxial Fine & Coarse Adjustment					
Stage	Double Layer Mechanical Stage150×140mm/75×50mm					
	Blue					
Filter	Green					
Inter	Yellow					
	Ground Glass					
Illumination	Kohler Illumination, Epi-illuminator with iris aperture diaphragm and iris field					
	diaphragm, 6V/20W Halogen Lamp, Brightness Adjustable	0				
	diaphragm, 6V/20W Halogen Lamp, Brightness Adjustable Optional Accessories	lter	n No.			
	diaphragm, 6V/20W Halogen Lamp, Brightness Adjustable Optional Accessories WF8x/18	lter A51.100	n No.			
Eyepiece	Optional Accessories		<mark>m No.</mark> 2-8			
Еуеріесе	Optional Accessories WF8x/18	A51.100	<mark>n No.</mark> 2-8 2-12.5			
Eyepiece	Optional Accessories WF8x/18 WF12.5x/15	A51.1002 A51.1002	<mark>n No.</mark> 2-8 2-12.5 7-10M			
Eyepiece	Optional Accessories WF8x/18 WF12.5x/15 WF10x/18 With 0.1mm Micrometer & Cross Hair	A51.1002 A51.1002 A51.100	<mark>m No.</mark> 2-8 2-12.5 7-10M 35-20			
	Optional Accessories           WF8x/18           WF12.5x/15           WF10x/18 With 0.1mm Micrometer & Cross Hair           Infinity Plan Achromatic Objectives 20x/0.40/∞/- WD5.8mm           Infinity Plan Achromatic Objectives 40x/0.65/∞/-	A51.1002 A51.1002 A51.100 A5M.103	<b>n No.</b> 2-8 2-12.5 7-10M 35-20 35-40			
Eyepiece Objective	Optional Accessories           WF8x/18           WF12.5x/15           WF10x/18 With 0.1mm Micrometer & Cross Hair           Infinity Plan Achromatic Objectives 20x/0.40/∞/- WD5.8mm           Infinity Plan Achromatic Objectives 40x/0.65/∞/-           WD0.78mm           Infinity Plan Achromatic Objectives 50x/0.75/∞/-	A51.1002 A51.1002 A51.100 A5M.103 A5M.103	m No. 2-8 2-12.5 7-10M 55-20 35-40 35-50			
	Optional Accessories           WF8x/18           WF12.5x/15           WF10x/18 With 0.1mm Micrometer & Cross Hair           Infinity Plan Achromatic Objectives 20x/0.40/∞/- WD5.8mm           Infinity Plan Achromatic Objectives 40x/0.65/∞/-           WD0.78mm           Infinity Plan Achromatic Objectives 50x/0.75/∞/-           WD0.32mm	A51.1002 A51.1002 A51.1007 A5M.103 A5M.103 A5M.103	m No. 2-8 2-12.5 7-10M 5-20 5-20 5-40 5-50 5-80			
	Optional Accessories           WF8x/18           WF12.5x/15           WF10x/18 With 0.1mm Micrometer & Cross Hair           Infinity Plan Achromatic Objectives 20x/0.40/∞/- WD5.8mm           Infinity Plan Achromatic Objectives 40x/0.65/∞/-           WD0.78mm           Infinity Plan Achromatic Objectives 50x/0.75/∞/-           WD0.32mm           Infinity Plan Achromatic Objectives 80x/0.90/∞/- WD0.2mm           Infinity Plan Achromatic Objectives 100x/0.90/∞/-	A51.1002 A51.1002 A51.1007 A5M.103 A5M.103 A5M.103 A5M.103	m No. 2-8 2-12.5 7-10M 5-20 35-20 35-40 35-50 35-80 35-80			

# A13.1018 Metallurgical Microscope, Transmit & Reflect Light

### OPTO-EDU

Upright Transmit/Reflect Metallurgical Microscope Total Magnification 40x-400x With LWD Infinity Objective Mechanincal Stage 150×140mm/75×50mm Transmit & Reflect Light 6V/20W Halogen Kohler Illumination Related Model Reflect Version A13.1017

# **Product Specification**

	Specification A13.1018	Α	В	
	Binocular Head	•		
Head	Trinocular Head		•	
Eyepiece	WF10x/18			
Nosepiece	Quadruple Nosepiece			
	Infinity Plan Achromatic Objectives 4×/0.1/∞/- WD17.3mm			
Objective	Infinity Plan Achromatic Objectives 10×/0.25/∞/- WD10.0mm			
	Infinity Plan Achromatic Objectives 40×/0.60/∞/0 WD2.9mm			
Focusing	Coaxial Fine & Coarse Adjustment			
Stage	Double Layer Mechanical Stage150×140mm/75×50mm			
	Blue			
Filter	Green			
Filler	Yellow			
	Ground Glass			
Illumination	Kohler Illumination, Epi-illuminator with iris aperture diaphragn 6V/20W Halogen Lamp, Brightness Adjustable	n and iris field di	aphragm,	
	Optional Accessories	Item	No.	
	WF8x/18	A51.1002-8		
Eyepiece	WF12.5x/15	A51.1002-12.5		
	WF10x/18 With 0.1mm Micrometer & Cross Hair	A51.1007-10M		
	Infinity Plan Achromatic Objectives 20x/0.40/∞/- WD5.8mm	A5M.1035-20		
	Infinity Plan Achromatic Objectives 40x/0.65/∞/- WD0.78mm	A5M.1035-40		
Objective	Infinity Plan Achromatic Objectives 50x/0.75/∞/- WD0.32mm	A5M.1035-50		
	Infinity Plan Achromatic Objectives 80x/0.90/∞/- WD0.2mm	A5M.1035-80		
	Infinity Plan Achromatic Objectives 100x/0.90/∞/0 WD0.7mm	A5M.1035-100		
Polarizing	Simple Polarization Set	A5P.1004		
Other	Specimen Presser For Metallurgical Specimen Preparation	A5M.1010		

# A13.2501 Portable Metallurgical Microscope

### OPTO-EDU

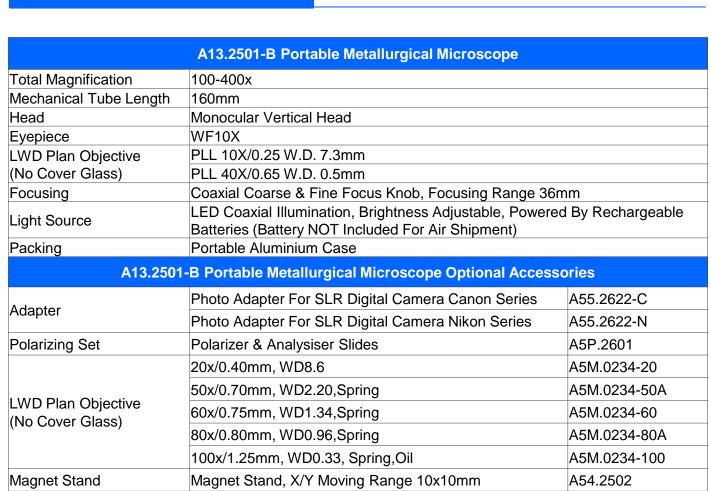
Portable Cordless Metallurgical Microscope 100x-400x Long Working Distance Plan Objective 10x, 40x Standard LWD Plan Objective (No Cover Glass) 20x, 50x, 60x, 80x, 100x Optional Magnet Stand, X/Y Moving Range 10x10mm Optional Upgradeable To Digital Microscope A32.2501



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### **Product Specification**

Magnet Stand Optional



# A14.1501

**Student Mini Cordless Inverted Microscope** 



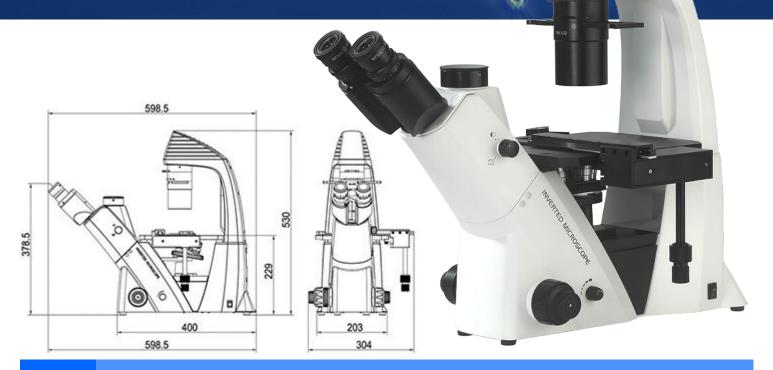


Creative Economical Inverted Microscope Coming New In 2019! Kid-friendly Inverted Design To Watch Both Prepared Slide & Live Cell In Glass Bottle Long Working Distance Objectives 4x10x20x Supply Magnification 40x~320x Complete Accessories Incl. Mobile Phone Holder & All Experiment Tools Cordless Power Free For Kids Use Outdoors In Any Place

A14	1501 Student Mini Cordless Inverted Microscope Specification
Magnification	40x~320x
Optical System	Invered Achromatic, Long Working Distance
Head	Monocular Head Inclined 45°
Eyepiece Tube	Inner Dia. 23.2mm
Eyepieces	WF10x/14mm, WF16x/9mm
Nosepiece	Triple
Objective	4x, 10x, 20x
Focusing	Coarse Focus Knob
Working Stage	Single Layer Round Stage Dia.118mm, With Clip
Condenser	Long Working Distance Abbe Condenser, N.A. 0.19, With Filter Slot
Light Source	Transmit Light 0.5W LED, Brightness Adjustable
Power	Cordless Powered By 3xAA 1.5V Batteries (Battery NOT Included For Air Shipment)
	Universal Mobile Phone Holder
	Prepared Slides *5
	Blank Slides*7
	Slide Cover *7
Learning Accessory Kit	Slide Sticker *7
	PlasticTweezers
	Plastic Petri Dish
	PlasticSpatula
	Plastic Sample Bottle *2

# A14.2603 Inverted Microscope, Transmit Light





Seidentopf Trinocular Head, Light Split Switch E100:P0 / E20:P80 LWD Infinity Plan Fluorescent Objectives Bright Field & Phase Contrast Observation Supported LWD Condenser N.A.0.3 Working Distance 72mm, Up To 195mm Without Condenser Standard Halogen 6V30W Koehler Illumination, 5W LED Optional For Choice Fluorescence Attachment Can Be Added To Upgrade It As A16.2614 Fluorescent Microscope





Filter Make The Effects Of Different Observed Samples More Realistic

Items	A14.2603 Inverted Biological Microscope Specification	A14.2603	A14.2603 TR	Cata. No.
Head	Seidentopf Trinocular Head Inclined 45°, Interpupilary Distance 48~76mm, Light Split Switch E100:P0 / E20:P80	•	•	A53.2643
	WF10x/22mm, Dia.30mm, High Eyepoint,, Diopter Adjustable	••	••	A51.2621-1022
Eyepiece	WF15X/16mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	00	A51.2621-1516
	WF20X/12mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	00	A51.2621-2012
Nosepiece	Quintuple	•	•	A54.2610-N925
LWD Infinity Plan	L Plan FL 4x/0.11 W.D.=12.1mm	0	0	A5F.2635-4
Fluorescent Objectives	L Plan FL 10x/0.25 W.D.=10.3mm	•	•	A5F.2635-10
Newly Update 2021	L Plan FL 20x/0.45 W.D.=5.8mm	•	•	A5F.2635-20
	L Plan FL 40x/0.65 W.D.=5.1mm	•	•	A5F.2635-40
LWD Infinity Plan	L Plan FL PHP 4x/0.10 W.D.=9.2mm	0	0	A5C.2635-4
Phase Contrast	L Plan FL PHP 10x/0.25 W.D.=10.3mm	0	0	A5C.2635-10
	L Plan FL PHP 20x/0.45 W.D.=5.8mm	•	•	A5C.2635-20
Newly Update 2021	L Plan FL PHP 40x/0.65 W.D.=5.1mm	0	0	A5C.2635-40 A5C.2610
	Centering Telescope 11x Annular Spot 4x	0	0	A5C.2610 A5C.2611-4
Phase Contrast	Annular Spot 4x Annular Spot 20x/ 40x	•	•	A5C.2611-4
	Annular Spot 200/ 400 Annular Spot 10x		•	A5C.2611-20/40
	Mechanical Stage Size 210x241mm, Round Slide Size Φ110mm	•	•	A54.2601-D4
	Attachable Mechanical Stage For 96 Holes Plate Moving Range	•	•	
	128x80mm	0	0	A54.2605
	Culture Dish Holder 65mm	0	0	A54.2606-65
Working Stage	Culture Dish Holder 54mm	•	•	A54.2606-54
	Culture Dish Holder 35mm	0	0	A54.2606-35
	Holder For Blood Cell Counter	0	0	A54.2606-BC
	Universal Holder (New Accessory 2021)	0	0	A54.2606-UH
	Round Glass Holder (New Accessory 2021)	0	0	A54.2606-GL
Condenser	Long Working Distance, Quickly Detachable, N.A.0.3, Working Distance 72mm (With Condenser), 195mm (Without Condenser).	•	•	A56.2614-D4
Tranmist Illumination	Koehler Illumination Halogen 6V/30W, Input Voltage 100V~240V	•	0	A56.2613- 6V30W
	Koehler Illumination 5W LED, Input Voltage 100V~240V	0	•	A56.2651-5W
Reflect Illumination	Koehler Illumination 5W LED, Input Voltage 100V~240V Polarizing Set	-	•	
Power	ECO, Auto Power Off System. Power Off Automatically Upon User Leaving 10 Minutes, Power On Automatically Upon User Approaching Detected, This Function Can Be Shut Down Manually	0	0	A56.2660
	Blue, Dia.34mm	•	•	A56.2616-34B
Filter	Green, Dia.34mm	•	•	A56.2616-34G
	Amber, Dia.34mm	0	0	A56.2616-34A
	Grey, Dia.34mm	0	0	A56.2616-34N
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
Adapter	C-Mount 0.75x, Focus Adjustable	0	0	A55.2601-75
	C-Mount1.0x, Focus Adjustable	0	0	A55.2601-10
	Upgrade to A16.2614-2 Inverted Fluorescence Microscope With: B,G China Fluorescent Filter 3 Holes Fluorescent Slide Unit, With Field Diaphragm, Center Adjustable 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. Ultraviolet Protection Barrier	0	0	A5F.2603-2
	Upgrade to A16.2614-4 Inverted Fluorescence Microscope With: B,G,U,UV China Fluorescent Filter 3 Holes Fluorescent Slide Unit, With Field Diaphragm, Center Adjustable 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. Ultraviolet Protection Barrier	0	o	A5F.2603-4
	Upgrade to A16.2614-L2 Inverted Fluorescence Microscope With: B,G China Fluorescent Filter 3 Holes Fluorescent Slide Unit, With Field Diaphragm, Center Adjustable 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier	0	0	A5F.2604-2

# A14.2605

**Inverted Biological Phase Contrast Microscope** 





12V/50W Kohler Illumination Makes The Field More Even And Brighter

Dual Photo & Video Channel Support Eyepiece / Digital Camera / SLR Camera View At Same Time ECO Automatic Power Off Upon User Leaving 10 Minutes & Power On Upon User Back LWD Infinity Plan Objectives Bright Field & Phase Contrast Observation Supported 4 Holes Disc Phase Contrast Condenser + Halogen 12V50W Koehler Illumination Fluorescence Attachment Can Be Added Upgrade To A16.2614 Fluorescent Microscope

Items	A14.2605 Inverted Biological Microscope Specification	A14.260 5	Cata. No.
A14.2605	Dual Photo & Video Channel System		
Upgraded	ECO Automatic Power Off System		
From	4 Holes Disc Phase Contrast Condenser		
A14.2604	Halogen 12V50W Koehler Illumnation		
	Seidentopf Trinocular Head Inclined 45°, Interpupilary Distance 48~76mm, , Light Split Switch E100:P0 / E20:P80		
Head	Dual Photo & Video Channel Support Eyepiece View / Digital Camera/SLR Camera Take Picture & Record Video At Same Time:	•	A53.2643
	Eyepiece View Has 100% Or 20% Light Switchable Digital Camera Port Has 0% Or 80% Light Switchable Photography Port 100% Light For SLR Camera (Standard Outfit Including SLR Camera Adapter 1pc)		
	WF10x/22mm, Dia.30mm, High Eyepoint,, Diopter Adjustable	••	A51.2621-1022
Eyepiece	WF15X/16mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	A51.2621-1516
	WF20X/12mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	A51.2621-2012

Nosepiece	Quintuple	٠	A54.2610-N92
LWD Infinity Plan	L Plan FL 4x/0.11 W.D.=12.1mm	٠	A5F.2635-4
Fluorescent	L Plan FL 10x/0.25 W.D.=10.3mm	0	A5F.2635-10
Objectives	L Plan FL 20x/0.45 W.D.=5.8mm	0	A5F.2635-20
Newly Update 2021	L Plan FL 40x/0.65 W.D.=5.1mm	0	A5F.2635-40
LWD Infinity Plan	L Plan FL PHP 4x/0.10 W.D.=9.2mm	0	A5C.2635-4
Phase Contrast	L Plan FL PHP 10x/0.25 W.D.=10.3mm	٠	A5C.2635-10
Fluorescent	L Plan FL PHP 20x/0.45 W.D.=5.8mm	٠	A5C.2635-20
Objectives Newly Update 2021	L Plan FL PHP 40x/0.65 W.D.=5.1mm	٠	A5C.2635-40
Phase Contrast	4 Holes Rotating Disc Phase Contrast Condenser N.A.0.4, W.D. 45mm, Up/Down Adjustable	•	A56.2612
	Centering Telescope 11x	٠	A5C.2610
	Mechanical Stage Size 210x241mm, Round Slide Size Φ110mm	٠	A54.2601-D4
	Attachable Mechanical Stage For 96 Holes Plate Moving Range 128x80mm	•	A54.2605
	Culture Dish Holder 65mm	0	A54.2606-65
	Culture Dish Holder 54mm	•	A54.2606-54
Working Stage	Culture Dish Holder 35mm	0	A54.2606-35
	Holder For Blood Cell Counter	0	A54.2606-BC
	Universal Holder (New Accessory 2021)	0	A54.2606-UH
	Round Glass Holder (New Accessory 2021)		A54.2606-GL
		0	
Illumination	Koehler Illumination Halogen 12V/50W, Input Voltage 100V~240V	•	A56.2613-50V
	Koehler Illumination 5W LED, Input Voltage 100V~240V	0	A56.2651-5W
	ECO, Auto Power Off System.		
Power	Power Off Automatically Upon User Leaving 10 Minutes,	•	A56.2660
	Power On Automatically Upon User Approaching Detected,	-	, 10012000
	This Function Can Be Shut Down Manually		
	Blue, Dia.34mm	٠	A56.2616-34B
Filter	Green, Dia.34mm	٠	A56.2616-34G
	Amber, Dia.34mm	0	A56.2616-34A
	Grey, Dia.34mm	0	A56.2616-34N
	Photo Adapter With 1.7x Photo Eyepiece,100% Light For Camera Port, For Canon SLR Digital Camera	•	A55.2622-BC1
	Photo Adapter With 1.7x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera	0	A55.2622-BN1
Adapter	Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Canon SLR Digital Camera With 1" CCD Sensor	0	A55.2622-BC2
	Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor	0	A55.2622-BN2
	C-Mount 0.5x, Focus Adjustable	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0	A55.2601-75
	C-Mount1.0x, Focus Adjustable	0	A55.2601-10
	Upgrade to A16.2615-L2 Inverted Fluorescence Microscope With: B,G China Fluorescent Filter 3 Holes Fluorescent Slide Unit, With Field Diaphragm, Center Adjustable	0	A5F.2604-2
Fluorescence	5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier		101.2004-2
Fluorescence	Upgrade to A16.2615-L4 Inverted Fluorescence Microscope With: B,G,U,UV China Fluorescent Filter 3 Holes Fluorescent Slide Unit, With Field Diaphragm, Center Adjustable 5W LED Lamp House 5W LED Power Box	0	A5F.2604-4
Dealiar	Ultraviolet Protection Barrier		
Package	Packing Size: 660mmx590mmx325mm		
Weight	Gross Weight: 18 kgs, Net Weight: 13.5 kgs		



A14.0900 is Designed for cell culture observation, to get details of cell growing process, internal spontaneous, fluorescence phenomenon, living cell fluorescence transfection, protein transfer and etc. Color corrected infinity system (CSIS), excellent optical performance and great image. Application of high-contrast and low chromatic phase contrast observation, access to detailed examination of internal structure of the cells. Well designed body structure, steady and reliable and better aseismatic performance.



#### A14.0900 Inverted Microscope, Koehler Illumination

Built-in Kohler illuminator, The Condenser Bracket Can Be Rotated 30 Degree, Swivel Bracket With The Orientation and Locking Device, With Iris Diaphragm and The Center of Filament Can be Adjusted N.A.0.3 Working Distance 72mm, for 4x- 40x Objectives N.A.0.5 Working Distance 28mm, for Higher Magnification Objectives

	A14.0900 Inverted Microscope, I	Kohler Illumination	Α	В
Optical System	Infinity Color Corrected Optical Syste	m	•	•
	Binocular Head		•	
Head	Trinocular Head, Light Split Switch E100:P0/E80:P20			•
	Gemel Viewing Head, 45 Degree Inclined, Interpapillary Distance 54-75mm, One eyepiece tube with ±5 Diopter Adjustment,		•	•
<b>_</b> .	PL10x/22mm, High Eyepoint, Wide Field		•	•
Eyepiece	PL15x/16mm, High Eyepoint, Wide F	ïeld	0	0
Nosepiece	Reversed Revolving Quintuple Nose	piece	•	•
		LWDPL 4x/0.10, W.D.=22mm	•	•
	Long Working Distance Infinity Plan	LWDPL 10x/0.25, W.D.=7.94mm	•	•
	Achromatic Objectives	LWDPL 20x/0.40, W.D.=7.66mm	0	0
Objective		LWDPL 40x/0.60, W.D.=3.72mm	•	•
		LWDPL 10x/0.25, W.D.=7.94mm	0	0
	LWD Infinity Plan Phase Contrast Objectives	LWDPL 20x/0.40, W.D.=7.66mm	•	•
	Objectives	LWDPL 40x/0.60, W.D.=3.71mm	0	0
Store	Fixed Stage Size 250*160mm, Slider	Clips	•	•
	Glass Plate		•	•
	Metal Plate		•	•
Stage	Petri Dish Holder, Dia.35mm		•	•
	Movable Ruler, Travel Range 120x78mm		0	0
	Extension Plate		0	0
Focusing	Coaxial Coarse & Fine Focusing System, Working Distance Of Every Circle: 38mm/Coarse Focus, 0.2mm/ Fine Focus, Minimal Read 0.002mm/,With Tension Adjustment, With Safety Stop		•	•
Condenser	N.A.0.3 Kohler Illumination Condenser, with Phase Adjustable Slide Plate, Long Working Distance 72mm. The Whole Set Can Be Rotated Down		•	•
	N.A.0.5 condenser for option, dismou	Intable	0	0
	Phase Contrast Plug-board for 10x-4	0x, Center Adjustable	•	•
Phase Contrast	Centering Telescope Dia. 30mm		•	•
	Dia.45mm Green Interference Filter		•	•
	Dia.45mm Color Temperature Chang	je Filter	•	•
Filter	Dia.45mm Infrared Eliminate Filter		0	0
	Dia.45mm Rubidium Glass Filter		0	0
Light	Kohler Illumination, With Iris Aperture and Field Diaphragm, 6V/30W Halogen Bulb, Center And Focus Adjustable, Brightness Adjustable		•	•
Photo Adapter	Photo Tube(with PK adaptor), 3.2x Lo	ens	0	0
Video Adapter	0.5x/0.67x C Mount Adaptor		0	0
Power	Wide Voltage 90-240V		•	•

# A14.0901 Inverted Microscope, Critical Illumination

### OPTO-EDU



Color corrected infinity system (CSIS), excellent optical performance and great image. Application of high-contrast and low chromatic phase contrast observation, access to detailed examination of internal structure of the cells. Supply long working distance and high N.A. objectives to get the flat and clear image. Well designed body structure, steady and reliable and better aseismatic performance. Critical Illumination, with long working distance condenser, has capacity to use revolution bottle

and suit for many sample containers.



	A14.0901 Inverted Mic	roscope	Α	В
Optical System	Infinity Color Corrected Optical Syste	em	•	•
	Binocular Head		•	
Head	Trinocular Head, Light Split Switch E100:P0/E80:P20			•
Ticau	Gemel Viewing Head, 45 Degree Inclined, Interpapillary Distance 54-75mm, One eyepiece tube with ±5 Diopter Adjustment,		•	•
<b>F</b>	PL10x/22mm, High Eyepoint, Wide F	ield	•	•
Eyepiece	PL15x/16mm, High Eyepoint, Wide F	ield	0	0
Nosepiece	Reversed Revolving Quintuple Nose	piece	•	•
		LWDPL 4x/0.10, W.D.=22mm	•	•
	Long Working Distance Infinity Plan	LWDPL 10x/0.25, W.D.=7.94mm	•	•
	Achromatic Objectives	LWDPL 20x/0.40, W.D.=7.66mm	0	0
Objective		LWDPL 40x/0.60, W.D.=3.72mm	•	•
		LWDPL 10x/0.25, W.D.=7.94mm	0	0
	LWD Infinity Plan Phase Contrast Objectives	LWDPL 20x/0.40, W.D.=7.66mm	•	•
	Objectives	LWDPL 40x/0.60, W.D.=3.71mm	0	0
Oto re	Fixed Stage Size 250*160mm, Slider	Clips	•	•
	Glass Plate		•	•
	Metal Plate		•	•
Stage	Petri Dish Holder, Dia.35mm		•	•
	Movable Ruler, Travel Range 120x78mm		0	0
	Extension Plate		0	0
Focusing	Coaxial Coarse & Fine Focusing System, Working Distance Of Every Circle: 38mm/Coarse Focus, 0.2mm/ Fine Focus, Minimal Read 0.002mm/,With Tension Adjustment, With Safety Stop			•
Condenser	N.A.0.3 Kohler Illumination Condense Long Working Distance 72mm. The V	er, with Phase Adjustable Slide Plate, Whole Set Can Be Rotated Down	•	•
	N.A.0.5 condenser for option, dismou	untable	0	0
	Phase Contrast Plug-board for 10x-4	0x, Center Adjustable	•	•
Phase Contrast	Centering Telescope Dia. 30mm		•	•
	Dia.45mm Green Interference Filter		•	•
	Dia.45mm Color Temperature Chang	je Filter	•	•
Filter	Dia.45mm Infrared Eliminate Filter		0	0
	Dia.45mm Rubidium Glass Filter		0	0
Light	Critical Illumination, With Iris Aperture, Halogen 6V30W, Pre-centered, Intensity Adjustable		•	•
Photo Adapter	Photo Tube(with PK adaptor), 3.2x Le	ens	0	0
Video Adapter	0.5x/0.67x C Mount Adaptor		0	0
Power	Wide Voltage 90-240V			•

# A14.0912 Inverted Biological Microscope

### OPTO-EDU



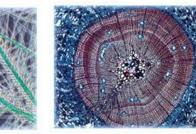
Infinity Color Corrected Optical System + Positive Phase Contrast Plan WF10x/22mm, Diopter Adjustable, High Eye-point Infinity LWD Plan Achromatic Objective 4x/10x/40x & Phase Contrast 20x Phase Contrast Filter & Centering Telescope 5W LED With Light Indicator, With ECO Auto On/Off Function

#### A14.0912 Inverted Microscope

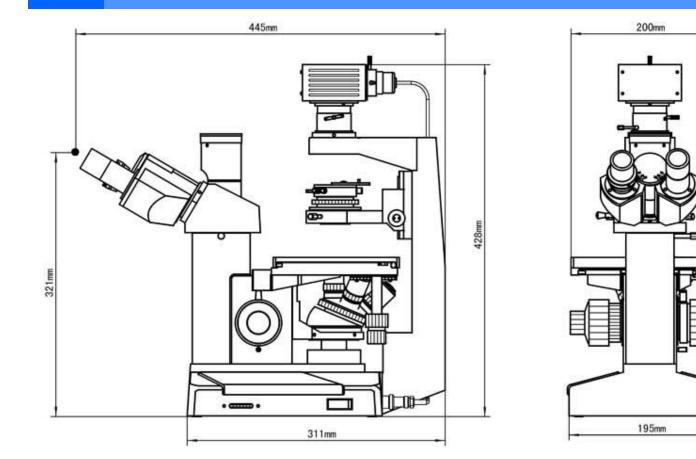
Optical System	Infinity Color Corrrected Optical System					
Head	Trinocular Head, Split Ratio 50:50, 45° Inclined, 360° Rotatable, IPD 50-75mm,					
Eyepiece	Plan WF10x/22mm, Diopter Adjustable, High Eye-point,					
Objective	Infinity LWD Plan Achromatic Objective 4x/10x/40x					
Objective	Infinity LWD Positive Phase Contrast Objective 20x					
Focus System	Coaxial Focus System With Tension Adjustment, Coarse Range: 9n	nm, Fine Precision 0.002mm				
Nosepiece	Quadruple Nosepiece					
Condenser	LWD N.A. 0.30, W.D. 72mm, Dismountable, Phase Contrast Slide					
Stage	Right Hand Controls, Low Positioned, Fixed Mechanical Stage, Size	215x250mm, Dia.35 Petri Dish Holder, Metal Plate And Glass Plate				
	5W LED, With Light Indicator, Brightness Adjustable					
Light Source	ECO Infared Induction System (Auto on/off)					
	External Wide Voltage Transformer, 100V-240V Input, 12V5A Out	put,				
Phase Contrast	Centering Telescope Dia.30mm					
Phase Contrast	IF550 Contrast Green Filter Dia.45mm					
Filter	LBD Color Temperature Change Filter Dia.45mm					
	Optional Accessories	Item No.				
Eyepiece	Plan WF15x/16mm, Diopter Adjustable, High Eye-point					
Stage	Mechanical Mobile Ruler, Moving Range120(X)*78(Y)mm Stage Extension Plate	A54.0945-03				
	035x C-Mount					
A -1	0.5x C-Mount					
Adapter	0.65x C-Mount					
	1.0x C-Mount					

# A14.0201 Inverted Biological Phase Contrast Microscope

### OPTO-EDU



Total Magnification 100-400x Inverted Phase Contrast Microscope Wide Field Eyepiece WF10x/20mm, LWD Objective 10x,25x,40x Impellent Phase Contrast Slide And 10x Phase Contrast Objective Included Coaxial Coarse/Fine Focus System, Minimum Division 0.002mm Tranismit Light Halogen Lamp 6V 20W With Brightness Control 0 0



#### A14.0201 Inverted Phase Contrast Microscope

is equipped with wide field eyepieces, long working distance plan achromatic objectives, long working distance condenser and phase contrast unit. It can observe transparent and unfinished living specimen in culture bottle or culture utensil. It is the ideal tools for research of living specimen structure, liquid, deposits and so on.

--Wide Field Eyepiece WF10x/20mm, LWD Objective 10x,25x,40x

--Impellent Phase Contrast Slide And 10x Phase Contrast Objective Included,

--Sliding Phase Contrast Slide Unit Optional

- --Coaxial Coarse/Fine Focus System, Minimum Division 0.002mm
- --Tranismit Light Halogen Lamp 6V 20W With Brightness Control

	A14.0201 Inverte	ed Phase Contrast Microscop	pe						
Magnification	Total 100~400x								
Head	Trinocular Head, 30° Inclined, 100 Ligh Pass For Photography								
Eyepiece	WF10x/20mm Wide Field								
Nosepiece	Quadruple								
Objective	LWD Plan Achromatic Object	ive							
	PLL10x/0.25, W.D.8.8mm								
	PLL 25x/0.40, W.D.4.8mm								
	PLL 40x/0.60, W.D.3.3mm								
	LWD Plan Phase Contrast Objective								
	PLL10x/0.25 PHP, W.D.8.1m	m							
Working Stage	Double Layer Mechanical Sta	ge 200*152mm, Moving Range	75*30mm						
		68mm Or 77*33mm Culture Uter	nsil						
	Culture Dish Holder, For Dia.	68mm							
Focusing		Knob, With Tension Adjustable	And Limit Stopper, Minimum						
	Division 0.002mm								
Impellent	0	e Contrast Condener, N.A.0.4, W	Vorking Distance 30mm, Rack &						
Phase Contrast	Pinion Adjustable								
	Impellent Style Phase Plate 1								
	Centering Telescope Eyepiec	e 10x							
Filter	Blue, Green, Frost Filter								
Light Source		alogen Lamp, Brightness Adjust	able						
		Optional Accessories							
Eyepiece	WF16x/11mm		A51.0203-16A						
	Dividing Eyepiece 10x/20mm	, 0.1mm/Div	A51.0205-G10A						
Impellent		PLL 25x/0.40 PHP,	A5C.0232-25						
Phase Contrast	LWD Plan Phase Contrast	W.D.4.78mm							
	Objective	PLL 40x/0.60 PHP,	A5C.0232-40						
		W.D.3.32mm							
	Ultra Long Working Distance		A5M.0210-6						
	N.A.0.4, Working Distance 70	A5IVI.0210-8							
	Impellent Phase Contrast Plat		A5C.0211-2						
	Impellent Phase Contrast Plat		A5C.0211-3						
Sliding		PLL10x/0.25 PHP2,	A5C.0232-10a						
Phase Contrast		W.D.8.1mm							
	LWD Plan Phase Contrast	PLL25x/0.40 PHP2,	A5C.0232-25a						
	Objective	W.D.4.78mm							
		PLL40x/0.60 PHP2,	A5C.0232-40a						
		W.D.3.32mm							
	0	e Contrast Condener, N.A.0.4,	A5M.0210-7						
	Working Distance 55mm	10%	AFC 0211 4						
	Sliding Phase Contrast Plate	A5C.0211-4							
Filtor	Sliding Phase Contrast Plate	207/408	A5C.0211-5						
Filter	Yellow Filter		A56.0209-3						
Adapter	CCD Adapter 0.5x	for Conon EE Series	A55.0202-04						
Digital SLR Camera Adapter for Canon EF Series A55.0204-02									

# A14.0205

Inverted Biological Phase Contrast Microscope, DIC, PMC





Binocular Head With WF10x/22mm Eyepiece

Inverted Biological Phase Contrast Microscope, Upgradeable To DIC, PMC WF10x/22 Eyepiece, Bright Field LWD Infinity Plan 10x20x40x, Large Working Stage 224x205mm, Moving Stage 112x77mm LWD Condenser W.D.70mm With Phase Contrast Slide LWD Infinity Plan Phase Contrast Objective, Hoffman Objective, DIC Objective

UOJ-OT4O



Mechanical Stage Size 224x208mm, With Detachable Moving Stage

#### A14.0205 Series Inverted Phase Contrast Microscope

A14.0205 -PMC -DIC

A14.0205 Series Inverted Phase Contrast Microscope, is newly designed multi-functional microscope which combined Positive Phase Contrast, Polarizing Modulation Contract (PMC) (Upgrade from Hoffman Modulation Contract HMC), Differential Interference Contrast (DIC), and adopts infinity optical system, provides excellent optical function. The ultra long working distance condenser is suitable for tissue observation in high culture dish. The illumination system used 9W LED to supply high brightness light with well considered heat spreading and safety. The main body was designed with morden looking and man-machine engineering.

A14.0205 is applicable to scientific research instituation, colleges, university, medical and health, inspection and quarantine agency, agricultural, animal husbandry and dairy industry.

quarantine a	Total Magnification 100x-400x	•	•	•
System	Infinity Optical System, Mechanical Tube Length $\propto$ , Conjugate Distance $\propto$	•	•	•
Head	Trinocular Head, 45° Inclined, 360° Rotatable,Interpupillary Distance 55~75mm, Light Split Switch E80:P20/E100:P0	•	•	•
	WF10x/22mm, Eyepiece Tube Dia. 30mm, Parfocal Distance 10mm	•	•	•
Eyepiece	Centering Telescope Eyepiece 10x	•	•	•
Nosepiece	Quarduple	•	•	•
Objective	LWD Infinity Plan Bright Field Objective 10x/0.25, W.D.4.27, Cover Glass 1.2mm 20x/0.40, W.D.8.0, Cover Glass 1.2mm 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Positive Phase Contrast Objective PHP2 10x/0.25, W.D.4.27mm, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 10x/0.25, W.D.4.27, Cover Glass 1.2mm 20x/0.40, W.D.8.0, Cover Glass 1.2mm 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Polarizing Modulation Contract (PMC) Objective 20x/0.4, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Bright Field Objective 40x/0.60, W.D.3.5, Cover Glass 1.2mm LWD Infinity Plan Differential Interference Contrast (DIC) Objective 5x/0.12, Cover Glass 1.2mm 10x/0.25, Cover Glass 1.2mm	•	•	•
	Phase Contrast Slide, For 10x,20x,40x Objectives, Center Adjustable	•		
Phase	Polarizing Modulation Contract (PMC) Slide, Slit Center Adjustable		•	
Contrast	Differential Interference Contrast (DIC) Slide, Interference Light Adjustable			•
Focus	Coaxial Coarse & Fine Focus Knob, With Tension Adjustable And Limit Stopper, Minimum Division 0.002mm, Focusing Range 11mm	•	•	•
	Mechanical Stage Size 224x208mm, With Detachable Moving Stage Moving Range 112x79mm,	•	•	•
	Culture Dish Holder 86x129.5mm, For Circular Culture Dish Dia.87.5mm	•	•	•
Working	Culture Dish Holder 34x77.5mm, For Circular Culture Dish Dia.68.5mm	•	•	•
Stage	Culture Dish Holder57x82mm	•	•	•
olago	Moving Specimen Holder	0	0	0
	Fixed Stage Board	0	0	0
	Zeiss Style Large Moving Stage, With Multi Sizes Culture Dish Holder, With Universal Joint Moving Knob For Easily Use	0	0	0
Condenser	Long Working Distance Condenser, W.D. 70mm, With Phase Contrast Slide Slot	•	•	•
Filter	Blue Filter, Frosted Glass	•	•	•
Light source	Transmit Light High Power 9W LED, Brightness Adjustable, For Phase Contrast Observation And Ultra-Long Working Distance View In Cultrue Dish	•	•	•

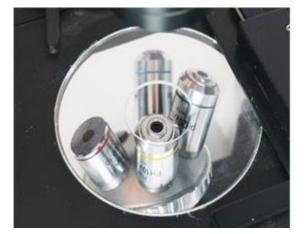


Infinity Plan LWD Optical System Bright Field & Phase Contrase View Seidentopf Trinocular Head, 30° Inclined, Interpupillary 48~75mm, Diopter Adjustable Plain Stage 160\*250mm, Auxiliary Stage 70\*180mm, Optional Attachable Mechanical Stage ELWD Condenser N.A.0.3, Long Working Distance 72mm, Up to 150mm Without Condenser External Kohler Illumination, Halogen Lamp 6V30W, Brightness Adjustable



Quintuple Nosepiece Under Working Stage







Plain Stage 160\*250mm Glass Insert Plate Auxiliary Stage 70\*180mm

# **Product Specification**

A	4.1021 Inverted Laborator	y Biological Microscope							
Optical System	Infinity Optical System								
Head		Seidentopf Trinocular Head, 30° Inclined, Interpupillary 48~75mm, Diopter Adjustable							
Eyepiece	Extra Wide Field Eyepiece E	EW10x/22mm, High Eyepoint	t						
Nosepiece	Quintuple Nosepiece								
	Infinity Plan LWD	4x/0.1, W.D.18mm							
	Achromatic Objective								
Objective	Infinity Plan Phase Contrast								
	Achromatic Objective	PH20x/0.40, W.D.5.1mm							
Focusing Coaxial Coarse & Fine Adjustment, Coarse Stroke 37.7mm Per Rotation, Fine Stroke 0.2mm Per Rotation									
Working Stage	Working Stage       Plain Stage 160*250mm        Glass Insert Plate        Auxiliary Stage 70*180mm								
Condenser	ELWD Condenser N.A.0.3, Condenser	Long Working Distance 72m	m, Up to 150mm Without						
Phase Contrast	Centering Telescope, Tub Phase Contrast Slide, 2 H								
Filter	Green, Blue, Ground Glass,	Dia.45mm							
Illumination	External Kohler Illumination,	, Halogen Lamp 6V30W, Brig	htness Adjustable						
Adapter	Eyepiece Adapter Dia.23.2n	nm							
A14.1021 Inv	erted Laboratory Biologica	I Microscope Optional Ac	cessories						
Objective	Infinity Plan LWD	10x/0.25,W.D.10mm	A5M.1031-10						
	Achromatic Objective	20x/0.4,W.D.5.1mm	A5M.1031-20						
Phase Contrast	Infinity Plan Phase Contrast Achromatic Objective	PH40x/0.6,W.D.0.35mm	A5C.1023-40						
Fliase Contrast	Phase Contrast Slide, 3 Hol Objective	es For 10x-20x-40x	A5C.1013-3						
Wokring Stage	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Range 120*78mm Ergonomic Stage Knob's Height & Position Along Y-Ax Movable To Where It Is Most Comfortable, Tightness								
	Terasaki Holder, Inner Hold	ing Size 56x88mm	A54.1006-T						
	Petri Dish Holder Dia.38mm		A54.1006-38						
	Petri Dish & Slide Glass Hol	der Dia.54mm	A54.1006-54						
	Petri Dish Holder Dia.90mm		A54.1006-90						
	Photo Adapter		A55.1001						
Adapter	C-Mount 1.0x		A55.1002-10						
	C-Mount 0.45x		A55.1002-45						
Fluorescent	Fluorescent Attachment, Up	grade to <u>A16.1023</u>	A5F.1003						

## A14.2701 Inverted Microscope

### OPTO-EDU

UCIS infinity independent achromatic optical system One-piece construction from arm to base

Low positioned, coaxial coarse & fine focusing system with adjustable tension control and upper limit Stop Abbe condenser N.A. 0.30 with iris diaphragm, with phase contrast slider & filter ( $\varphi$ 34) blue, green & Yellow Right hand controls, low position, mechanical stage, size 240x260mm, moving range 135x85mm.,

It area a	
Items	A14.2701 Inverted Microscope
Optical System	Ucis Infinity Independent Achromatic Optical System
Frame	One-Piece Construction From Arm To Base
Head	Seidentopf Binocular Head, 45° Inclined, Interpupillary Distance 52-75Mm, ±5 Diopter Adjustment
Eyepiece	WF10x/20mm, Plan, High Eyepoint Up To 21mm
Centering Attachment	Centering Telescope
	Infinity LWD Plan Achromatic Objective 10x/0.25 W.D.9.67
Objective	Infinity LWD Plan Achromatic Objective 20x/0.40 W.D.7.97,
Objective	Infinity LWD Plan Achromatic Objective 40x/0.60 W.D.3.76
	Infinity LWD Plan Phase Contrast Objective 20x/0.40 WD7.97
Focus System	Low Positioned, Coaxial Coarse & Fine Focusing System with Adjustable Tension Control and Upper Limit Stop, Minimum Reading 1µm, Moving Range 12mm
Nosepiece	Quintuple, Reversed Type with Positive Click Stops
Candanaar	Abbe CondenserN.A. 0.30 with Iris diaphragm, With Phase Contrast Slider & Filter (φ34) Blue,Green
Condenser	& Yellow, Long Work Distance 72mm
	Right Hand Controls, Low position, Mechanical Stage, Size 240x260mm, Moving Range 135x85mm.
Stage	Drop Specimen Holder Dia.118mm
	Specimen Holder (76x26, φ54)
	6V30W Halogen Lamp House
	6V30W Power Supply Unit
Light Source	6V30W Halogen Bulb (Osram)
	250V/3.15A Ф5X20 Fuse
	Power Supply 110-240V,50/60Hz
Phase Contrast	Phase Contrast Slider For 10x,20x,40x
Adapter	0.5x, C-Mount
	Allen Screw Driver 2mm
Othor	Allen Screw Driver 2.5mm
Other	Dust Cover
	Power Cord

	A14.2701 Optional Accessories	Item No.
Head	Seidentopf Binocular Head, 45° Inclined, Interpupillary Distance 48-75mm, Diopter Adjustable	A53.2702-1A
	WF10x/22mm Plan Eyepiece, High Eyepoint	A51.2701-10C
Eyepiece	WF10x/20mm, Plan, High Eyepoint ,Reticle Eyepiece, Diopter Adjustable	A51.2701-10A1
	WF16x/13mm, Plan	A51.2701-1613
	Infinity Plan Achromatic Objective 4x	A52.2706-04C
	Infinity LWD Plan Achromatic Objective 60x	A52.2706-60LB
	Infinity LWD Plan Phase-contrast Objective 10x (Positive)	A5C.2735-10PB
Objective	Infinity LWD Plan Phase-contrast Objective 40x (Positive)	A5C.2735-40PB
	Infinity LWD Plan Phase-Contrast Objective 10x (Negative)	A5C.2735-10NB
	Infinity LWD Plan Phase-Contrast Objective 20x (Negative)	A5C.2735-20NB
	Infinity LWD Plan Phase-Contrast Objective 40x (Negative)+Slider	A5C.2735-40NB
Stage	Mechanical Stage, Size 350x208mm, Moving Range 50x50mm	A54.2706-5
	0.25x C-Mount(Used in 1/3' CCD)	A55.2701-25A
Adapter	1x C-Mount	
·	Digital Camera Adapter (need to know camera brand)	A55.2702-2
Bulb	6V30W Halogen Bulb	A56.2703-30C
Specimen Holder	125x85	A54.2706-3
	100W DC Mercury Lamp House	A5F.2712
	Power Supply Unit for 100W DC Mercury Lamp	A5F.2713
	Epi-fluorescent Illumination, Multi-functional Semi-reflector	A5F.2714
	Fluorescent Filter UV(Superior Grade)	A5F.2710-IUV
	Fluorescent Filter V(Superior Grade)	A5F.2710-IV
	Fluorescent Filter B(Superior Grade)	A5F.2710-IB
Fluorescence Attachment	Fluorescent Filter G(Superior Grade)	A5F.2710-IG
	Fluorescent Filter UV(Common Grade)	A5F.2711-CUV
	Fluorescent Filter V(Common Grade)	A5F.2711-CV
	Fluorescent Filter B(Common Grade)	A5F.2711-CB
	Fluorescent Filter G(Common Grade)	A5F.2711-CG
	100W Mercury bulb	A5F.2716-H
	100W Mercury bulb (Osram)	A5F.2716-I

# A14.2702 Inverted Microscope

### OPTO-EDU

UCIS infinity independent achromatic optical system One-piece construction from arm to base Plan WF10x/20mm, high eyepoint up to 21mm,Centering telescope Quintuple, reversed type with positive click stops Abbe condenser N.A. 0.30 with iris diaphragm, with phase contrast slider, long work distance ramm

Itomo	A14 2702 Inverted Microscope
Items	A14.2702 Inverted Microscope
	Ucis Infinity Independent Achromatic Optical System
Frame	One-Piece Construction From Arm To Base
Head	Seidentopf Trinocular Head, 30° Inclined, Interpupillary Distance 52-75Mm, Diopter Adjustable
Eyepiece	Plan WF10x/20mm, High Eye point Up To 21mm,
Centering Attachment	Centering Telescope
	Infinity LWD Plan Achromatic Objective 10x
Objective	Infinity LWD Plan Achromatic Objective 20x
Objective	Infinity LWD Plan Achromatic Objective 40x
	Infinity LWD Plan Positive Phase Contrast Objective 20x
Focus System	Coaxial Coarse And Fine Focus Mechanism With Markings, Fine Focus Sensitivity 1mm, Coarse Range
Focus System	14mm
Nosepiece	Quintuple, Reversed Type With Positive Click Stops
	Low Position, Mechanical Stage, Size 180X150mm, Moving Range 80X50mm.
Stage	Drop Specimen Holder Dia.110mm
	Specimen Holder Dia. 54mm
	Abbe Condenser N.A. 0.30 With Iris Diaphragm, With Phase Contrast Slider, Long Work Distance 72mm
	6V30W Halogen Lamp House
	Electrical Parts For 6V30W Halogen Lamp
	6V30W Halogen Bulb(Osram)
Light Source	250V/3.15A Φ5x20 Fuse
_	Power Supply 110-240V 50/60Hz
	Blue Filter (Ф34)
	Green Filter (Ф34)
	Yellow Filter (Ф34)
Phase Contrast	Phase Contrast Slider (For 10X/20X/40X Phase Contrast And Brightfield Observation)
	1.0x C-Mount
	Allen Screw Driver 2mm
Other	Dust Cover
	Power Cord

	A14.2702 Optional Accessories	Item No.
	Seidentopf Binocular Head, 30° Inclined, Interpupillary Distance 52-75mm, Diopter Adjustable	A53.2702-3
Head	Seidentopf Binocular Head, 30° Inclined, Interpupillary Distance 52-75mm, Diopter Adjustable (For FOV 22mm)	A53.2702-2B
	Seidentopf Trinocular Head, 30° Inclined, Interpupillary Distance 52-75mm, Diopter Adjustable (For FOV 22mm)	A53.2704-2A
	WF10x/18mm, Plan, Reticule Eyepiece, High Eyepoint Up To 21mm Diopter Adjustable	A51.2703-10
Eyepiece	Eyepiece 16x/13mm, Plan	A51.2701-1613A
	WF10x/22mm,Plan, High Eyepoint	A51.2701-10C
	WF10X/20mm, Reticule Eyepiece, High Eye-point, Diopter Adjustable	A51.2703-10A
	Infinity LWD Plan Achromatic Objective 4x	A5M.2730-4C
	Infinity LWD Plan Achromatic Objective 60x	A5M.2730-60B
	Infinity LWD plan phase-contrast Objective 10x (positive)	A5C.2735-10PB
Objective	Infinity LWD plan phase-contrast Objective 40x (positive)+slider	A5C.2735-40PB
Objective	Infinity LWD Plan Phase-Contrast Objective 10x (Negative)	A5C.2735-10NB
	Infinity LWD Plan Phase-Contrast Objective 20x (Negative)	A5C.2735-20NB
	Infinity LWD Plan Phase-Contrast Objective 40x (Negative)+slider	A5C.2735-40NB
Stage	Fixed Stage, Size 240x180mm	A54.2707-4
	100W Mercury Lamp House	A5F.2712
	100W Power Supply Unit	A5F.2713
	100W Mercury Lamp	A5F.2716-H
Fluorescence	100W Mercury Lamp (Osram)	A5F.2716-I
Attachment	Excitation Filter B	A5F.2711-CAB
	Excitation Filter G	A5F.2711-CAG
	Excitation Filter UV	A5F.2711-CAUV
	Excitation Filter V	A5F.2711-CAV
	1.0x C-Mount	A55.2701-10
	0.5x C-Mount	A55.2701-05
Adapter	0.25x C-Mount (suitable for 1/3" CCD)	A55.2701-25
	Digital Camera Adapter, (Need To Know Camera Model Number)	A55.2702-2

# A15.2601-T Polarizing Microscope, Transmit



Analyzer Rotatable 360°, Module Type, Can Be Locked

Transmit 5W LED Illumination+ Swing Out Condenser N.A. 0.9/0.13 Center Adjustable Head & Eyepiece With Joint Move Design To Keep Right Side Eyepiece's Cross Direction Professional Polarizing Non-Stress LWD Infinity Plan Objective (Transmitting) Professional Polarizing Lens, Analyzer With Bertrand Lens,  $\lambda$ ,  $\lambda/4$  Slip, Quartz Wedge Large Round Stage Diameter  $\Phi$ 174mm For Reflect Light Center Adjustable

OPTO-EDU

Items		A15.2601 Transmit				A15.2601 Transmit & Reflect		Cata. No.
		TB	TT	RB	RT	RTB	RTT	
	Professional Polarizing Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm, Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	•	0	٠	0	٠	0	A53.2625-B
Head	Professional Polarizing Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	0	•	0	٠	0	٠	A53.2625-T
	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	•	•					A51.2621-1022
Evenieco	WF10x/22mm, Dia.30mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move	•	•					A51.2622-1022P
Eyepiece	WF10x/20mm, Dia.30mm, High Eyepoint, Diopter Adjustable			•	•	•	•	A51.2621-1020
	WF10x/20mm, Dia.30mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move			•	•	•	•	A51.2622-1020P
Nosepiece	Quintuple, Center Adjustable	•	•	•	•	•	•	A54.2610-N02

	PLAN 4x/0.10, W.D.=12.1mm	•	•			•	•	A5P.2630-4
	PLAN 10x/0.25, W.D.=4.64mm	•	•			•	•	A5P.2630-10
	PLAN 20x/0.40(S), W.D.=2.41mm	•	•			•	•	A5P.2630-20
	PLAN 40x/0.66(S), W.D.=0.65mm	•	•			•	•	A5P.2630-40
	PLAN 60x/0.8(S), W.D.=0.33mm							A5P.2630-60
	PLAN 100x/1.25(S,Oil), W.D.=0.12mm							A5P.2630-100
	LPL5x/0.13, W.D.=16.04mm			•	•	0	0	A5M.2633-5
Non-Stress	LPL10x/0.25 W.D.=18.48mm			•	•	0	0	A5M.2633-10
LWD Infinity				•	•	0	0	A5M.2633-20
Plan Objective	LPL20x/0.40 W.D.=8.35mm LPL50x/0.70(S) W.D.=1.95mm			•	•	•	•	A5M.2633-50
(Reflecting)	LPL100x/0.90(S,Dry) W.D.=1.10mm			0	0	0	0	A5M.2633-100
	Round Stage Diameter Φ174mm, For Transmit Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can	•	•	0	0	•	•	A54.2602-S06
	Be Locked							101.2002 000
	Round Stage Diameter Φ148mm, For Reflect Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can				•			A54.2602-S06a
Working Stage								
Working Olago	Attachable Mechanical Stage For Polaring							
	Microscope, Moving Range 40x40mm	0	0	0	0	0	0	A5P.2616
	Attachable Mechanical Stage For Polaring							
	Microscope, Moving Range 30x45mm, Lecia Type,	0	0	0	0	0	0	A5P.2616-LK
	Avoid Hitting Objective Lens							7.01 .2010 EIX
	Swing Out Condnser, N.A.0.9/0.13, With Polarizer							
Condenser	Lens In Bottom, With Scale, Can Be Locked	•	•			•	•	A56.2614-C10
	Analyzer Media Unit, Between Head And Body,							
	Analyzer 0~360° Adjustable, Can Be Locked,	•			•	•		A5P.2621-BK
	With Betrand Lens Built-in Focus Adjustable,	•	-					AJF .2021-DR
	Componenter Clide, With ) Clin (First Class Ded)	•	•	•	•	•	•	A5P.2614-16a
Polarizing Unit	Compensator Slide, With $\lambda$ Slip (First Class Red) Compensator Slide, With $\lambda$ /4 Slip	•	•	•	•	•	•	A5P.2614-16a
	Ouertz Wedge Slide (LIV Cleas)	-	•					A5P.2614-15a
	Quartz Wedge Slide (I-IV Class) Quartz Wedge Slide (0-IV Class) Long Type	•	•	•	•	•		A5P.2615-17 A5P.2615-17a
		0	0	0	0	0	0	
	Polarizer Lens, Bulit-in Bottom Part Of Condenser	•	•	•	•	•	•	A5P.2610-BK
Focusing	Coaxial Coarse & Fine Focusing, Coarse Focusing	•	•	•	•	•	•	
	Travel Range: 22mm, Fine Focusing Div. 0.002mm							
	Transmit Light 5W LED	•	•			•	•	A56.2612-5W
	Koehler Illumination, Wide Voltage 100V~240V							
	Transmit Light 6V30W Halogen	0	0			0	0	A56.2613-30W
Illumination	Koehler Illumination, Wide Voltage 100V~240V							
	Reflect Light 5W LED			•	•	•	•	A56.2612-5W
	Koehler Illumination, Wide Voltage 100V~240V							
	Reflect Light 12V50W Halogen			0	0	0	0	A56.2613-50W
<b>-</b>	Koehler Illumination, Wide Voltage 100V~240V							
Field	For Kohler Illumnation	•	•	•	•	•	•	A56.2615-BK
Diaphragm								
	ECO, Auto Power Off System.							
	Power Off Automatically Upon User Leaving 10							
Power	Minutes,	0	0			0	0	A56.2660
	Power On Automatically Upon User Approaching							
	Detected,							
	This Function Can Be Shut Down Manually							
	Dia.45mm, Blue	0	0	0	0	0	0	A56.2616-45B
Filter	Dia.45mm, Green	0	0	0	0	0	0	A56.2616-45G
	Dia.45mm, Yellow	0	0	0	0	0	0	A56.2616-45A
	C-Mount 0.5x, Focus Adjustable		0		0		0	A55.2601-05
Δ	C-Mount 0.75x, Focus Adjustable		0		0		0	A55.2601-75
Adapter	C-Mount 1.0x, Focus Adjustable		0		0		0	A55.2601-10
	Digital Eyepiece Camera Adapter, Dia.		0		0		0	A55.2610
	23.2mm/25mm			<u> </u>				
							1.00	UNAR ORNA TO TT
	Carton Size 520×470×285mm, 1 Unit/Ctn, Gross Weig		-				-	
Package &	Carton Size 520×470×285mm, 1 Unit/Ctn, Gross Weig Carton Size 520×470×430mm, 1 Unit/Ctn, Gross Weig		-				-	A15.2601-TB,TT A15.2601-RB,RT
		ght: 16	6.0 kgs	, Net \	Neight	: 12.5	kgs	

# A15.2601-R Polarizing Microscope, Reflect

OPTO-EDU

Reflect 5W LED Illumination + Swing Out Condenser N.A. 0.9/0.13 Center Adjustable Head & Eyepiece With Joint Move Design To Keep Right Side Eyepiece's Cross Direction Professional Polarizing Non-Stress LWD Infinity Plan Objective (Reflecting) Professional Polarizing Lens, Analyzer With Bertrand Lens,  $\lambda$ ,  $\lambda/4$  Slip, Quartz Wedge. Large Round Stage Diameter  $\Phi$ 148mm For Reflect Light Center Adjustable

Items		A15.2601 Transmit				A15.2601 Transmit & Reflect		Cata. No.
		TB	TT	RB	RT	RTB	RTT	
	Professional Polarizing Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm, Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	•	0	•	0	•		A53.2625-B
Head	Professional Polarizing Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	0	•	0	•	0	۰	A53.2625-T
	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	•	•					A51.2621-1022
Fueriese	WF10x/22mm, Dia.30mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move	•	•					A51.2622-1022P
Eyepiece	WF10x/20mm, Dia.30mm, High Eyepoint, Diopter Adjustable			•	•	•	•	A51.2621-1020
	WF10x/20mm, Dia.30mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move			•	•	•	•	A51.2622-1020P
Nosepiece	Quintuple, Center Adjustable	•	•	•	•	•	•	A54.2610-N02

	PLAN 4x/0.10, W.D.=12.1mm						•	A5P.2630-4
Non-Stress	PLAN 4x/0.10, W.D.=12.11111 PLAN 10x/0.25, W.D.=4.64mm	•	•			•	•	A5P.2630-4 A5P.2630-10
	PLAN 20x/0.40(S), W.D.=2.41mm	•	•			•	•	A5P.2630-20
Objective	PLAN 40x/0.66(S), W.D.=0.65mm	•	•			•	•	A5P.2630-40
	PLAN 60x/0.8(S), W.D.=0.33mm							A5P.2630-60
(Transmitting)	PLAN 100x/1.25(S,Oil), W.D.=0.12mm							A5P.2630-100
	LPL5x/0.13, W.D.=16.04mm			•	•	0	0	A5M.2633-5
Non-Stress	LPL10x/0.25 W.D.=18.48mm				•	0	0	A5M.2633-10
LWD Infinity	I P 20 x / 0 40 W D - 8.35 mm			•	•	0	0	A5M.2633-20
Plan Objective	LPL50x/0.70(S) W.D.=1.95mm			•	•	•	•	A5M.2633-50
(Reflecting)	LPL100x/0.90(S,Dry) W.D.=1.10mm			0	0	0	0	A5M.2633-100
	Round Stage Diameter Φ174mm, For Transmit Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can	•	•	0	0	•	•	A54.2602-S06
	Be Locked							
	Round Stage Diameter Φ148mm, For Reflect Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can			•	•			A54.2602-S06a
Working Stage								
	Attachable Mechanical Stage For Polaring		_		_	_	_	
	Microscope, Moving Range 40x40mm	0	0	0	0	0	0	A5P.2616
	Attachable Mechanical Stage For Polaring							
	Microscope, Moving Range 30x45mm, Lecia Type,	0	0	0	0	0	0	A5P.2616-LK
	Avoid Hitting Objective Lens							
Condenser	Swing Out Condnser, N.A.0.9/0.13, With Polarizer	•	•			•	•	A56.2614-C10
Condensei	Lens In Bottom, With Scale, Can Be Locked							A30.2014-C10
	Analyzer Media Unit, Between Head And Body,							
	Analyzer 0~360° Adjustable, Can Be Locked,	•	•	•	•	•	•	A5P.2621-BK
	With Betrand Lens Built-in Focus Adjustable,							
Polarizing Unit	Compensator Slide, With $\lambda$ Slip (First Class Red)	•	•	•	•	•	•	A5P.2614-16a
r olalizing onit	Compensator Slide, With A/4 Slip	•	•	•	•	•	•	A5P.2614-15a
	Quartz Wedge Slide (I-IV Class)	•	•	•	•	•	•	A5P.2615-17
	Quartz Wedge Slide (0-IV Class) Long Type	0	0	0	0	0	0	A5P.2615-17a
	Polarizer Lens, Bulit-in Bottom Part Of Condenser	•	•	•	•	•	•	A5P.2610-BK
Focusing	Coaxial Coarse & Fine Focusing, Coarse Focusing	•	•	•	•	•	•	
5	Travel Range: 22mm, Fine Focusing Div. 0.002mm							
	Transmit Light 5W LED	•	•			•	•	A56.2612-5W
	Koehler Illumination, Wide Voltage 100V~240V							
	Transmit Light 6V30W Halogen	0	0			0	0	A56.2613-30W
Illumination	Koehler Illumination, Wide Voltage 100V~240V							
	Reflect Light 5W LED Koehler Illumination, Wide Voltage 100V~240V			•	•	•	•	A56.2612-5W
	Reflect Light 12V50W Halogen							
	Koehler Illumination, Wide Voltage 100V~240V			0	0	0	0	A56.2613-50W
Field								
Diaphragm	For Kohler Illumnation	•	•	•	•	•	•	A56.2615-BK
Diapinagin	ECO, Auto Power Off System.							
	Power Off Automatically Upon User Leaving 10							
_	Minutes,							
Power	Power On Automatically Upon User Approaching	0	0			0	0	A56.2660
	Detected,							
	This Function Can Be Shut Down Manually							
	Dia.45mm, Blue	0	0	0	0	0	0	A56.2616-45B
Filter	Dia.45mm, Green	0	0	0	0	0	0	A56.2616-45G
	Dia.45mm, Yellow	0	0	0	0	0	0	A56.2616-45A
	C-Mount 0.5x, Focus Adjustable		0		0		0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable		0		0		0	A55.2601-75
Adapter	C-Mount 1.0x, Focus Adjustable		0		0		0	A55.2601-10
	Digital Eyepiece Camera Adapter, Dia.							
	23.2mm/25mm		0		0		0	A55.2610
	Carton Size 520×470×285mm, 1 Unit/Ctn, Gross Weig	ht: 12	2.5 kgs	, Net V	Weight	: 10.0	kgs	A15.2601-TB,TT
Package &	Carton Size 520×470×430mm, 1 Unit/Ctn, Gross Weig							A15.2601-RB,RT
Weight								A15.2601-
	Carton Size 520×470×430mm, 1 Unit/Ctn, Gross Weig	JUL 15	o.u kgs	, net	veign	I I .Ə	ĸġs	RTB,RTT
Note: "•"In Tab	ble Is Standard outfits, "o" Is Optional Accessories							

# A15.2601-RT Polarizing Microscope, Transmit & Reflect





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Transmit & Reflect 5W LED Illumination + Swing Out Condenser N.A. 0.9/0.13 Center Adjustable Head & Eyepiece With Joint Move Design To Keep Right Side Eyepiece's Cross Direction Professional Polarizing Non-Stress LWD Infinity Plan Objective (Transmitting & Reflecting) Professional Polarizing Lens, Analyzer With Bertrand Lens,  $\lambda$ ,  $\lambda/4$  Slip, Quartz Wedge. Large Round Stage Diameter  $\Phi$ 174mm For Reflect Light Center Adjustable

Items	A15.2601-R Reflect Polarzing Microscope	A15.2601 Transmit		A15.2601 Reflect		A15.2601 Transmit & Reflect		Cata. No.
			TT	RB	RT	RTB	RTT	
	Professional Polarizing Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm, Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	٠	0	۲	0	•	0	A53.2625-B
Head	Professional Polarizing Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm Joint Move Design: Speically For Polarzing Microscope, To Keep Right Side Eyepiece's Cross In View Field Keep Vertical Direction Even When Eyepiece Tube Turned	0	•	0	•	0	•	A53.2625-T
Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	•	•					A51.2621-1022
	WF10x/22mm, Dia.30mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move	•	•					A51.2622-1022P
	WF10x/20mm, Dia.30mm, High Eyepoint, Diopter Adjustable			•	•	•	•	A51.2621-1020
	WF10x/20mm, Dia.30mm, With Micrometer X-0.1mm*180							
	Div / Y-Single Line, Diopter Adjustable, With Position Pin For Joint Move			•	•	•	•	A51.2622-1020P
Nosepiece	Quintuple, Center Adjustable	•	•	•	•	•	•	A54.2610-N02

	PLAN 4x/0.10, W.D.=12.1mm	•	•			•	•	A5P.2630-4
Non-Stress	PLAN 10x/0.25, W.D.=4.64mm	•	•			•	•	A5P.2630-10
	PLAN 20x/0.40(S), W.D.=2.41mm		•			•	•	A5P.2630-20
	PLAN 40x/0.66(S), W.D.=0.65mm	•	•			•	•	A5P.2630-40
	PLAN 60x/0.8(S), W.D.=0.33mm							A5P.2630-60
	PLAN 100x/1.25(S,Oil), W.D.=0.12mm							A5P.2630-100
	LPL5x/0.13, W.D.=16.04mm			•	•	0	0	A5M.2633-5
Non-Stress	LPL10x/0.25 W.D.=18.48mm					0		A5M.2633-10
LWD Infinity				•	•		0	
	LPL20x/0.40 W.D.=8.35mm			•	•	0	0	A5M.2633-20
(Reflecting)	LPL50X/0.70(S) VV.D.=1.95mm			•	•	•	•	A5M.2633-50
ι <b>υ</b> ,	LPL100x/0.90(S,Dry) W.D.=1.10mm			0	0	0	0	A5M.2633-100
	Round Stage Diameter Φ174mm, For Transmit Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can		•	0	0	•	•	A54.2602-S06
	Be Locked							
	Round Stage Diameter Φ148mm, For Reflect Light,							
	Rotatable 360°, Division 1', Vernier Division 6', Can			•	•			A54.2602-S06a
<b>Vorking Stage</b>	Be Locked							
	Attachable Mechanical Stage For Polaring						_	A5P.2616
	Microscope, Moving Range 40x40mm	0	0	0	0	0	0	A5P.2010
	Attachable Mechanical Stage For Polaring							
	Microscope, Moving Range 30x45mm, Lecia Type,	0	0	0	0	0	0	A5P.2616-LK
	Avoid Hitting Objective Lens							
	Swing Out Condnser, N.A.0.9/0.13, With Polarizer							
( Andanear	Lens In Bottom, With Scale, Can Be Locked	•	•			•	•	A56.2614-C10
	Analyzer Media Unit, Between Head And Body,							
	Analyzer 0~360° Adjustable, Can Be Locked,		•	•	•	•	•	A5P.2621-BK
	With Betrand Lens Built-in Focus Adjustable,							A 5 D 004 4 4 0 1
Polarizing Unit	Compensator Slide, With $\lambda$ Slip (First Class Red)	•	•	•	•	•	•	A5P.2614-16a
g e m	Compensator Slide, With N/4 Slip		•	•	•	•	•	A5P.2614-15a
	Quartz Wedge Slide (I-IV Class)		•	•	•	•	•	A5P.2615-17
	Quartz Wedge Slide (0-IV Class) Long Type	0	0	0	0	0	0	A5P.2615-17a
	Polarizer Lens, Bulit-in Bottom Part Of Condenser	•	•	•	•	•	•	A5P.2610-BK
Feeting	Coaxial Coarse & Fine Focusing, Coarse Focusing					-	-	
Focusing	Travel Range: 22mm, Fine Focusing Div. 0.002mm	•	•	•	•	•	•	
	Transmit Light 5W LED							
	Koehler Illumination, Wide Voltage 100V~240V	•	•			•	•	A56.2612-5W
	Transmit Light 6V30W Halogen							
	Koehler Illumination, Wide Voltage 100V~240V	0	0			0	0	A56.2613-30W
	Reflect Light 5W LED							
	Koehler Illumination, Wide Voltage 100V~240V			•	•	•	•	A56.2612-5W
	Reflect Light 12V50W Halogen							
	Koehler Illumination, Wide Voltage 100V~240V			0	0	0	0	A56.2613-50W
	Roemer murmination, while voltage 100v~240v							
Field	For Kohler Illumnation	•	•	•	•	•	•	A56.2615-BK
Diaphragm								
	ECO, Auto Power Off System.							
	Power Off Automatically Upon User Leaving 10							
	Minutes,	0	0			0	0	A56.2660
I OWEI	Power On Automatically Upon User Approaching	0						A30.2000
	Detected,							
	This Function Can Be Shut Down Manually							
	Dia.45mm, Blue	0	0	0	0	0	0	A56.2616-45B
Filter	Dia.45mm, Green	0	0	0	0	0	0	A56.2616-45G
	Dia.45mm, Yellow	0	0	0	0	0	0	A56.2616-45A
	C-Mount 0.5x, Focus Adjustable		0		0		0	A55.2601-05
			0		0		0	A55.2601-05
	(:-Mount()/by Focus Adjustable						0	A55.2601-75
	C-Mount 0.75x, Focus Adjustable			1	~			
Adapter	C-Mount 1.0x, Focus Adjustable		0		0			A33.2001-10
Adapter	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia.		0		0		0	
Adapter	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm		0		0		0	A55.2610
Adapter	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm Carton Size 520×470×285mm, 1 Unit/Ctn, Gross Weig		े 2.5 kgs		୍ Neight		o kgs	A55.2610 A15.2601-TB,TT
Adapter Package &	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm		े 2.5 kgs		୍ Neight		o kgs	A55.2610 A15.2601-TB,TT A15.2601-RB,RT
Adapter Package &	C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm Carton Size 520×470×285mm, 1 Unit/Ctn, Gross Weig	ght: 16	0 2.5 kgs 6.0 kgs	, Net V	୍ Neight Neight	: 12.5	o kgs kgs	A55.2610 A15.2601-TB,TT

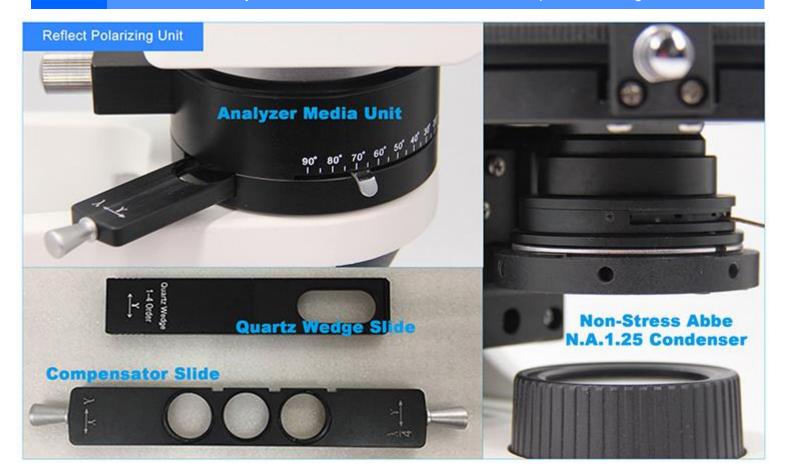
# A15.2603 Polarizing Microscope, Transmit







Transmit 5W LED Illumination + Center Adjustable Quadruple Nosepiece Non-Stress Infinity Plan Objective 4x,10x,20x,40x,60x,100x Optional Non-Stress Abbe N.A.1.25 Condenser, Center Adjustable With Polarizer Lens In Bottom Round Stage Diameter Dia.142mm, Can Be Locked And Center Adjustable Professional Analyzer Media Unit With Bertrand Lens,  $\lambda$ ,  $\lambda/4$  Slip, Quartz Wedge.



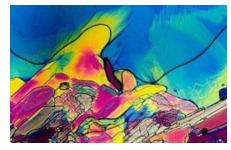
Items	A15.2603 Transmit Polarizing Microscope Specification	-A	-B	Cata. No.			
	Seidentopf Binocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm	•	0	A53.2621-B			
Head	Seidentopf Trinocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm, , Light Split Fixed P20:E80	0	•	A53.2621-T			
	WF10x/20mm, High Eyepoint,	٠	•	A51.2602-1018			
Eyepiece	WF10x/20mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	•	•	A51.2605-1018[			
Nosepiece	Quadruple, Backward	•	•	A54.2610-N08			
	PLAN 4X/0.10, W.D.=12.1mm	•	•	A5P.2630-4			
	PLAN 10X/0.25,W.D.=4.64mm	•	•	A5P.2630-10			
Non-Stress Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	•	A5P.2630-20			
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	٠	•	A5P.2630-40			
	PLAN 60X/0.80(S),W.D.=0.33mm	0	0	A5P.2630-60			
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	0	0	A5P.2630-100			
	Round Stage Diameter Φ142mm, Rotatable 360°, Division 1', Vernier Division 6', Can Be Locked, Center Adjustable	•	•	A54.2602-S03			
Working Stage	Attachable Mechanical Stage For Polaring Microscope, Moving Range 40x40mm	0	0	A5P.2616			
	Attachable Mechanical Stage For Polaring Microscope, Moving Range 30x45mm, Lecia Type, Avoid Hitting Objective Lens	0	0	A5P.2616-LK			
Condenser	Non-Stress Abbe N.A.1.25, Iris Diaphragm, Center Adjustable With Polarizer Lens In Bottom	•	•	A56.2614-P6			
	Analyzer Media Unit, Between Head And Body, Analyzer 0~90° Adjustable, With Betrand Lens Built-in, Can Be Moved Out Of Optical Path For Single Polarizing Observe	٠	•	A5P.2621-S			
Polarizing Unit	Compensator Slide, 3 Holes, With $\lambda$ Slip (First Class Red) + 1/4 $\lambda$ Slip.	•	•	A5P.2613-22a			
	Quartz Wedge Slide (I-IV Class)	•	•	A5P.2615-17			
	Polarizer Lens, Bulit-in Bottom Part Of Condenser Can Be Moved Out Of Optical Path	•	•	A5P.2610-S			
<b>T</b>	5W LED Lamp	•	•	A56.2613-30W			
Transmit Illumination	6V/30W Halogen Lamp	0	0	A56.2651-3W			
	Dia.45mm, Blue (Built in)	0	0	A56.2616-45B			
	Dia.45mm, Green	0	0	A56.2616-45G			
Filter	Dia.45mm, Yellow	0	0	A56.2616-45A			
	Dia.45mm, Neutral	0	0	A56.2616-45N			
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05			
	C-Mount 0.75x, Focus Adjustable	0	0	A55.2601-75			
Adapter	C-Mount1.0x, Focus Adjustable	0		A55.2601-10			
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0		A55.2610			
Package	Carton Size 570×275×450mm, 1 Unit/Ctn						
Weight Gross Weight: 8.6 kgs, Net Weight: 7.5 kgs							

# A15.2604 Polarizing Microscope

## OPTO-EDU

#### Transmit 12V20W Halogen Illumination

Non-Stress Achromatic Objective 4x,10x,20x,40x,60x Optional Abbe N.A.1.25, Iris Diaphragm, With Polarizer Lens In Bottom Round Stage Diameter Φ142mm, Rotatable 360°, Can Be Locked Professional Analyzer Media Unit With Bertrand Lens, λ, λ/4 Slip, Quartz Wedge





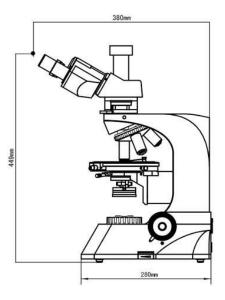
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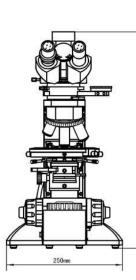
Items	A15.2604 Polarizing Microscope						
View Head	Monocular Head, Inclined 30°, Rotatable 360°						
Eyepiece	WF 10X/18mm, With Cross Micrometer 0.1mm						
Objective	Strain-free Achromatic Objective 4x,10x 40x(S)						
Nosepiece	Quadruple						
Analyzer Unit	0-90°, It Can Be Moved Out Of The Optical Path For Single Polarizing Observe						
Bertrand Lens	It Can Be Moved Out Of The Optical Path						
	Polarizer Unit Built-in Condenser						
	Analyzer Unit Insert to Polarizing Media, Rotatable 0-90°, Can Be Moved Out Of Optical Path						
Polarizing	Polarizing Media, Between Head & Body, Including Compensator:						
Polarizing	Bertrand Lens, Can Be Moved Out Of Optical Path						
	λ Slip (First Class Red)						
	λ/4 Slip						
Stage	Round, Diameter 142mm, Rotatable 360°, Division 1°, Vernier division 6, Lockal	ble					
Condenser	Abbe N.A. 1.25						
Polarizing Unit	It Can Be Moved Out Of The Optical Path						
Illumination	12V/20W Halogen Lamp, With Blue Filter On Light Collector						
Items	A15.2604 Polarizing Microscope Optional Accessor	у					
Eyepiece	WF16x/13mm	A51.2602-1613					
	Strain-free Achromatic Objective 20x	A5P.2629-20					
Objective	Strain-free Achromatic Objective 60x	A5P.2629-60					
Compensator	Quartz Wedge I~IV Class	A5P.2615-B					
Stage	Attachable Polarizing Mechanical Stage, Moving Range 40x40mm	A5P.2616					
Illumination	LED Lamp, (Rechargeable Optional)	A56.2651-0.3W					

Items	A15.2603 Transmit Polarizing Microscope Specification	-A	-B	Cata. No.
	Seidentopf Binocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm	•	0	A53.2621-B
Head	Seidentopf Trinocular Head Inclined 30°, Eyetube Rotatable 360°, Interpupilary Distance 48-75mm, , Light Split Fixed P20:E80	0	•	A53.2621-T
	WF10x/20mm, High Eyepoint,	•	•	A51.2602-
Eyepiece	WF10x/20mm, With Micrometer X-0.1mm*180 Div / Y-Single Line, Diopter Adjustable	•	•	1018 A51.2605- 1018D
Nosepiece	Quadruple, Backward	•	•	A54.2610- N08
	PLAN 4X/0.10, W.D.=12.1mm	•	•	A5P.2630-4
	PLAN 10X/0.25,W.D.=4.64mm	•	•	A5P.2630- 10
Non-Stress Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	•	A5P.2630- 20
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	•	•	A5P.2630- 40
	PLAN 60X/0.80(S),W.D.=0.33mm	0	0	A5P.2630- 60
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	0	0	A5P.2630- 100
	Round Stage Diameter Φ142mm, Rotatable 360°, Division 1', Vernier Division 6', Can Be Locked, Center Adjustable	•	•	A54.2602- S03
Working Stage	Attachable Mechanical Stage For Polaring Microscope, Moving Range 40x40mm	0	0	A5P.2616
	Attachable Mechanical Stage For Polaring Microscope, Moving Range 30x45mm, Lecia Type, Avoid Hitting Objective Lens	0	0	A5P.2616- LK
Condenser	Non-Stress Abbe N.A.1.25, Iris Diaphragm, Center Adjustable With Polarizer Lens In Bottom	٠	•	A56.2614- P6
	Analyzer Media Unit, Between Head And Body, Analyzer 0~90° Adjustable, With Betrand Lens Built-in, Can Be Moved Out Of Optical Path For Single Polarizing Observe	•	•	A5P.2621-\$
Polarizing Unit	Compensator Slide, 3 Holes, With $\lambda$ Slip (First Class Red) + 1/4 $\lambda$ Slip.	•	•	A5P.2613- 22a
	Quartz Wedge Slide (I-IV Class)	•	•	A5P.2615- 17
	Polarizer Lens, Bulit-in Bottom Part Of Condenser Can Be Moved Out Of Optical Path	•	•	A5P.2610-
Transmit Illumination	5W LED Lamp	•	•	A56.2613- 30W
Transmit murmination	6V/30W Halogen Lamp	0	0	A56.2651- 3W
	Dia.45mm, Blue (Built in)	0	0	A56.2616- 45B
Filter	Dia.45mm, Green	0	0	A56.2616- 45G
	Dia.45mm, Yellow	0	0	A56.2616- 45A
	Dia.45mm, Neutral	0	0	A56.2616- 45N
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-0
Adapter	C-Mount 0.75x, Focus Adjustable	0	0	A55.2601-7
Λυαριοι	C-Mount1.0x, Focus Adjustable	0	0	A55.2601-1
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0	0	A55.2610
Package	Carton Size 570×275×450mm, 1 Unit/Ctn			
Weight	Gross Weight: 8.6 kgs, Net Weight: 7.5 kgs			

# A15.0204 Polarizing Microscope, Transmit Light









Trinocular Head Inclination 30° Light Split 100% For Low Light Photography Infinity Plan LWD Strain-free Objective For Professional Polarizing View Double Layer Round Stage, 360° Rotatable, Diameter 150mm Polarizer, Analyzer With Bertrand Lens,  $\lambda$ ,  $\lambda$ /4 And Quarts Wedge Compensator Transmit & Reflect Light 6V30W Halogen With Field & Aperture Diaphragm

Rotatable Stage, Diameter Φ150mm, 360°Graduated (In 1° Increments), Minimum Retardation Resolution 6' Center Adjustable And With Tightened



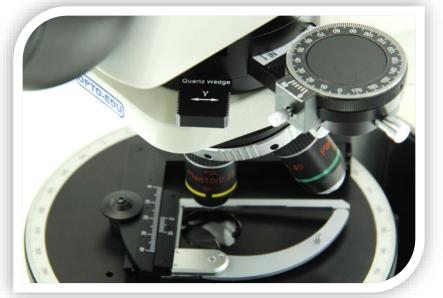
Polarizer 360 Degree Rotatable, Have 0,90,180,270 Four Scale Collector For Halogen Lamp Illumination 6V 30w, Halogen Lamp, Adjustable Brightness

# **Product Specification**

Specification	A15.0204 Polarizing Microscope	-A	-B	Cata.No.
	Trinocular, Inclination 30°, Rotatable 360°, Light Split Switch			
Head	E100:P0/E0:P100, 100% Light To Photo Port For Low Illumination	•	•	
	Microphotography Wide Field WF10x/22mm			A 51 0202 1022
Eyepiece		•		A51.0202-1022
	Dividing Eyepiece 10x/22mm, 0.10mm/Div	•	_	A51.0205-G10B
	Wide Field WF16x/11mm	0	0	A51.0203-16A
	Quadruple, Center Adjustable, Backward Ball Bearing Inner Locating	•	•	45400004
-	Quintuple, Center Adjustable, Backward Ball Bearing Inner Locating	0	0	A54.0203-4
	PL 4x/0.10, W.D. 19.8mm	•		A5P.0232-4
Infinity Plan LWD	PL 10x/0.25, W.D. 5.0mm	•		A5P.0232-10
Strain-free	PL 20x/0.40, W.D. 8.8mm	0		A5P.0232-20
Objective	PL 40x/0.65, W.D. 0.66mm, Spring	•		A5P.0232-40
	PL 60x/0.80, W.D. 0.45mm, Spring	٠		A5P.0232-60
	PLL 5x/0.12, W.D. 26.1mm, No Cover Glass		•	A5P.0235-5
	PLL 10x/0.25, W.D. 20.2mm, No Cover Glass		•	A5P.0235-10
Infinity Plan I WD	PLL 20x/0.40, W.D. 8.80mm, No Cover Glass		0	A5P.0235-20
Strain-free	PLL 40x/0.60, W.D. 3.98mm, No Cover Glass		•	A5P.0235-40
Objective,	PLL 50x/0.70, W.D. 3.68mm, No Cover Glass		0	A5P.0235-40
No Cover Glass	PLL 60x/0.75, W.D. 2.03mm, No Cover Glass		•	A5P.0235-60
	PLL 80x/0.80, W.D. 1.25mm, No Cover Glass			A5P.0235-80
	PLL 100x/0.85, W.D. 0.4mm, No Cover Glass			A5P.0235-100
	Double Layer Round Stage, 360° Rotatable, Diameter 150mm, 360°		-	
	Graduated In 1° Increments, Minimum Resolution 6', Center Adjustable, And	•	•	
Working Stage	With Tighten Position Lock			
	Slide Moving Holder, Moving Range: 30mmX25mm	0	0	A54.0209-2
Condenser	Abbe N.A.1.25, Rack & Pinion Height Adjustable, With Iris Diaphragm	•		
	Transmit Illumination 6V30W Halogen Lamp, Adjustable Brightness, With			
Light Source	Collector For Halogen Lamp Illumination	•	•	
	Reflect Illumination 6V30W Halogen Lamp, Adjustable Brightness,		•	
	Intergrated Field Diaphragm And Aperture Diaphragm			
	Polarizer On Transmit Light, 360° Rotatable, Have 0/90/180/270 Degree	•		
Polarizer	Scale, Set On Aperture Diaphragm, Can Take Down From Main Body			
	Polarizer Slide On Reflect Light, 360° Rotatable, Can Move In/Out Light Path		•	
	Integrated Intermedia Analyzer Between Head & Main Body, Can Be			
	Switched In/Out Light Path, Enable 0~90° Rotated At Minimum Vernier Division 12',			
	With Puller Bertrand Lens Slide Center Adjustable,	•		
	With $\lambda$ Compensator, $\lambda/4$ Compensator,			
Analyzer	With Quarts Wedge Compensator			
	Analyzer On Reflect Light, 360° Rotatable With Scale And Minimum Vernier			
	With Puller Bertrand Lens Slide Center Adjustable,		•	
	With $\lambda$ Compensator, $\lambda/4$ Compensator,			
	With Quarts Wedge Compensator			
Focus System	Coaxial Coarse & Fine Focus, With Tension Adjustable And Up Stop, Fine Focusing Minimum Division 0.002mm	•	•	
	0.4x	0	0	A55.0202-01
CCD Adapter	0.5x	0	-	A55.0202-04
	1.0x	0		A55.0202-02
	0.5x With Dividing 0.1mm/Div		_	A55.0202-02
		0	-	A55.0202-03 A55.0201-01
	2.5x/4x Change Over Photograph Attachment With 10x Photo Eypiece	0		
	4x Focusing Photograph Attachment	0	_	A55.0201-02
Photo Adapter	MD Adapter	0	-	A55.0201-03
	PK Adapter	0		A55.0201-04
	Digital Camera Adapter For Canon EF ditigal SLR Camera Adapter	0	0	A55.0204-02

# A15.0701-T Polarizing Microscope, Transmit







Swing-out NA0.9/0.25 Abbe Condenser With Iris Diaphragm & Filter Attachable Mechanical Stage, Moving Range 30x40mm Bertrand Lens, Focus/Center Adjustable Sliding In/Out Of Optical Path Coaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm Attachable Mechanical Stage, Moving Range 30x40mm



# **Product Specification**



#### A15.0701-TR

HeadBTBTHeadSeidentopf Binocular Viewing Head, Inclined at 30°•••Seidentopf Trinocular Viewing Head, Inclined at 30°•••EyepieceWF10x/20 With Cross Hair, Diopter Adjustable, Dia.23.2mm, 1pcs•••WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs••••WF10x/20, Diopter Adjustable, Dia.23.2mm, 2pcs•••••Infinity Plan Achromatic Objective 4x,10x for Reflected/Transmitted System•••••Infinity Plan Achromatic Objective 20x, 40x, 60x for Transmitted System•••••NosepieceBackward Quadruple Nosepiece, Center Adjustable••••••StageCoaxial Coarse & Fine Adjustment, Range 24mm,Fine Division Diameter Ф160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scale••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••	Items	A15.0701 Polarizing Microscope	A15.0	0701-T	A15.0701-T	
Head       Seidentopf Trinocular Viewing Head, Inclined at 30°       •       •         Eyepiece       WF10x/20 With Cross Hair, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 2pcs       •       •       •         Infinity Plan Achromatic Objective 4x, 10x for       •       •       •         Reflected/Transmitted System       •       •       •       •         Infinity Plan Achromatic Objective 20x, 40x, 60x for Transmitted       •       •       •         System       •       •       •       •       •         Nosepiece       Backward Quadruple Nosepiece, Center Adjustable       •       •       •       •         Stage       Ocaxial Coarse & Fine Adjustment, Range 24mm,Fine Division       •       •       •       •       •         Diameter Φ160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scale       •       •       •       •       •       •       •       •       •       •       •<			В	Т	В	Т
Seidentopf Trinocular Viewing Head, Inclined at 30°       •       •         Eyepiece       WF10x/20 With Cross Hair, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •       •         WF10x/20, Diopter Adjustable, Dia.23.2mm, 2pcs       •       •       •       •       •         Infinity Plan Achromatic Objective 4x, 10x for Reflected/Transmitted System       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	lleed	Seidentopf Binocular Viewing Head, Inclined at 30°	•		•	
Eyepiece       WF10x/20 With Graticule, Diopter Adjustable, Dia.23.2mm, 1pcs       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	Неао	Seidentopf Trinocular Viewing Head, Inclined at 30°		•		•
WF10x/20, Diopter Adjustable, Dia.23.2mm, 2pcs       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       <		WF10x/20 With Cross Hair, Diopter Adjustable, Dia.23.2mm, 1pcs	•	•	•	•
Objective       Infinity Plan Achromatic Objective 4x,10x for Reflected/Transmitted System       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	Eyepiece	WF10x/20 With Graticule, Diopter Adjustable, Dia.23.2mm, 1pcs	•	•	•	•
Objective       Reflected/Transmitted System       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •		WF10x/20, Diopter Adjustable,Dia.23.2mm, 2pcs	•	•	•	•
ObjectiveSystemInfinity Plan Achromatic Objective 20x, 40x, 60x for Reflected SystemNosepieceBackward Quadruple Nosepiece, Center AdjustableFocusingCoaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mmAttachable Mechanical Stage, Moving Range 30x40mmStageAttachable Mechanical Stage, Moving Range 30x40mmDiameter Φ160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scaleAnalyzerRotatable Analyzer With Gradation 0°-360°Polarizer360° Rotatable Under The CondenserBertrand LensBertrand LensPathOptical 			•	•	•	•
SystemImage: systemNosepieceBackward Quadruple Nosepiece, Center Adjustable••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <td< td=""><td>Objective</td><td>System</td><td>•</td><td>•</td><td></td><td></td></td<>	Objective	System	•	•		
FocusingCoaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm••••Attachable Mechanical Stage, Moving Range 30x40mm••••••StageDiameter Φ160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scale•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <t< td=""><td></td><td></td><td></td><td></td><td>•</td><td>•</td></t<>					•	•
Focusing0.002mm••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••	Nosepiece	Backward Quadruple Nosepiece, Center Adjustable	•	•	•	•
StageDiameter Φ160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scale••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••	Focusing		•	•	•	•
resolution 6' when using vernier scale•••••AnalyzerRotatable Analyzer With Gradation 0°-360°••••••Polarizer360° Rotatable Under The Condenser•••••••Bertrand LensBertrand Lens, Focus/Center Adjustable Sliding In/Out Of Optical Path••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• </td <td></td> <td>Attachable Mechanical Stage, Moving Range 30x40mm</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>		Attachable Mechanical Stage, Moving Range 30x40mm	•	•	•	•
Polarizer360° Rotatable Under The Condenser••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <t< td=""><td>Stage</td><td></td><td>•</td><td>•</td><td>•</td><td>•</td></t<>	Stage		•	•	•	•
Bertrand Lens       Bertrand Lens, Focus/Center Adjustable Sliding In/Out Of Optical Path       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	Analyzer	Rotatable Analyzer With Gradation 0°-360°	•	•	•	•
Bertrand Lens Optical CompensatorPath••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••• <td>Polarizer</td> <td>360° Rotatable Under The Condenser</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	Polarizer	360° Rotatable Under The Condenser	•	•	•	•
CompensatorA Slip (First Class Red) , 1/ 4A Slip, Quartz WedgeCondenserSwing-out NA0.9/0.25 Abbe Condenser With Iris Diaphragm & FilterTransmit Light12V/20W Halogen Lamp, Brightness Adjustable, With Filter, Upgradable To 5W LEDReflect Light12V/50W Halogen Lamp With Iris Aperture Diaphragm And Iris Field Diaphragm, Brightness Adjustable	Bertrand Lens		•	•	•	•
Condenser       Filter         Filter       12V/20W Halogen Lamp, Brightness Adjustable, With Filter, Upgradable To 5W LED         Reflect Light       12V/50W Halogen Lamp With Iris Aperture Diaphragm And Iris Field Diaphragm, Brightness Adjustable		$\lambda$ Slip (First Class Red) , 1/ 4 $\lambda$ Slip, Quartz Wedge	•	•	•	•
I ransmit Light       Upgradable To 5W LED       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •	Condenser		•	•	•	•
Reflect Light         Field Diaphragm, Brightness Adjustable	Transmit Light	Upgradable To 5W LED	•	•	•	•
Adapter C-Mount 0.4x	Reflect Light				•	•
	Adapter	C-Mount 0.4x		0		0
Filter       Blue Filter       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o <tho< th="">       o       o</tho<>			0	0	0	0

# A15.0701-TR

Polarizing Microscope, Transmit & Reflect





Swing-out NA0.9/0.25 Abbe Condenser With Iris Diaphragm & Filter Bertrand Lens, Focus/Center Adjustable Sliding In/Out Of Optical Path 12V/50W Halogen Lamp With Iris Aperture Diaphragm And Iris Field Diaphragm, Brightness Adjustable Attachable Mechanical Stage, Moving Range 30x40mm Rotatable Analyzer With Gradation 0°-360°, 360° Rotatable Under The Condenser



Light Source Cover Removable For Easy Repair



12V/50W Halogen With Iris Aperture Diaphragm, Iris Field Diaphragm

# **Product Specification**

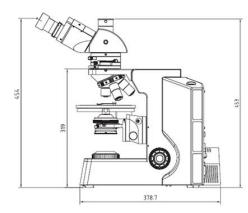


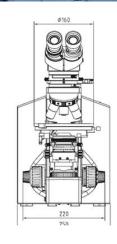
#### A15.0701-TR

ltems	A15.0701 Polarizing Microscope		'01-T	A15.0701-TR	
Rome		В	Т	В	Т
	Seidentopf Binocular Viewing Head, Inclined at 30°	•		•	
Head	Seidentopf Trinocular Viewing Head, Inclined at 30°		•		•
	WF10x/20 With Cross Hair, Diopter Adjustable, Dia.23.2mm, 1pcs	•	•	•	•
Eyepiece	WF10x/20 With Graticule, Diopter Adjustable, Dia.23.2mm, 1pcs	•	•	•	•
	WF10x/20, Diopter Adjustable, Dia.23.2mm, 2pcs	•	•	•	•
	Infinity Plan Achromatic Objective 4x,10x for Reflected/Transmitted System	•	•	•	•
Objective	Infinity Plan Achromatic Objective 20x, 40x, 60x for Transmitted System	•	•		
	Infinity Plan Achromatic Objective 20x, 40x, 60x for Reflected System			•	•
Nosepiece	Backward Quadruple Nosepiece, Center Adjustable	•	•	•	•
Focusing	Coaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm	•	•	•	•
	Attachable Mechanical Stage, Moving Range 30x40mm	•	•	•	•
Stage	Diameter Φ160mm, Graduated in 1° Increments, Minimum resolution 6' when using vernier scale	•	•	•	•
Analyzer	Rotatable Analyzer With Gradation 0°-360°	•	•	•	•
Polarizer	360° Rotatable Under The Condenser	•	•	•	•
Bertrand Lens	Bertrand Lens, Focus/Center Adjustable Sliding In/Out Of Optical Path	•	•	•	•
Optical Compensator	$\lambda$ Slip (First Class Red) , 1/ 4 $\lambda$ Slip, Quartz Wedge	•	•	•	•
Condenser	Swing-out NA0.9/0.25 Abbe Condenser With Iris Diaphragm & Filter	•	•	•	•
Transmit Light	12V/20W Halogen Lamp, Brightness Adjustable, With Filter, Upgradable To 5W LED	•	•	•	•
Reflect Light	12V/50W Halogen Lamp With Iris Aperture Diaphragm And Iris Field Diaphragm, Brightness Adjustable			•	•
Adapter	C-Mount 0.4x		0		0
Filter	Blue Filter s Standard Outfits, "o" Is Optional Accessories.	0	0	0	0

# A15.0908 Polarizing Microscope

#### OPTO-EDU





mm

Infinity Color Corrected Optical System Pluggable Analyzer, 360° Rotatable, 2° Increments, Precision 6', With Locking Device Circular Metal Stage Dia.160mm, Graphite Coating, 360° Rotatable, 1° Increment, Precision 6' Reflected Light, 12V/50W Halogen Lamp House, Imported Bulb, Center presetting, Transmitted Light, 12V/50W Halogen Lamp House, Imported Bulb, Center Presetting,

	A15.0908 Polarizing Microscope	Т	R	RT			
Optical System	Infinity Color Corrected Optical System						
Head	Compensation Binocular Head, 30° Inclined, 360° Rotatable, Interpupillary Distan Diopter +/-5 Adjustable.	ce 54	-75n	nm,			
Eyepiece	High Eye-point Wide Field Plan Eyepiece PL10x22mm						
Objective	Infinity Plan Destressing Objectives 4x, 10x, 40x, 60x LWD Infinity Plan Destressing Objectives 5x, 10x, 20x, 50x	finity Plan Destressing Objectives 4x, 10x, 40x, 60x•VD Infinity Plan Destressing Objectives 5x, 10x, 20x, 50x•					
Nosepiece	4 Holes Revolving Nosepiece, Inward, Center Adjustable						
Intermediate Tube	With Removable Internal Bertrand Lens, Analyzer And Compensators, Bertrand Lens With						
Analyzer	Pluggable Analyzer, 360° Rotatable, 2° Increments, Precision 6', With Locking Device						
Compensator	Gyps 1λ (Φ18mm, Optical Path Difference 551nm); Mical 1/4λ (Φ18mm, Optical Path Difference 147.3nm); Quartz Wedge(I-IV)						
Focusing	Coaxial Focus System With Upper Limited And Tension Adjustment; Coarse Range 25mm; Fine Precision 0.002mm						
Stage	Circular Metal Stage Dia.160mm, Graphite Coating, Anti-corrosive And Anti-frictic Rotatable, 1° Increment, Precision 6'	on, 36	0°				
Condenser	Swing-out Achromatic Condenser N.A.0.9, With 360° Rotatable Polarizer, Four Ac 0/90/180/270	djusta	ble S	Scale:			
Light Source	Reflected Light, 12V/50W Halogen Lamp House, Imported Bulb, Center presetting, Reflected Illuminator With LBD Filter And Pluggable Polarizer, Field Diaphragm And Aperture Diaphragm Adjustable Transmitted Light, 12V/50W Halogen Lamp House, Imported Bulb, Center Presetting, With Iris Diaphragm, Filter For Transmitted Light Yellow, Neutral, IF550, LBD	•	•	•			
Power	Wide Range Voltage 100~240V AC 50/60Hz	1					



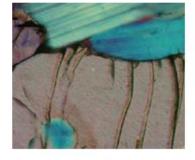
With Bayonet For Fixing Eyepiece For Polarizing Observation, The East-West Vibrating Axis And South-North Axis Should Be In Line With Vertical and Horizontal Scale Line Of Reticel In The Eyepiece



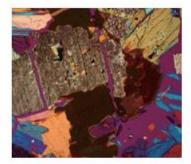


**Professional Measuring Stage** Is Optional

Big Circle Metal Working Stage Dia. 160mm, 360° Rotatable, With Position Lock, With Anti-corrosive And Anti-friction Graphite Coating. The Scale Is Silk-printed By Special Material Which Won't Be Fade Or Wear-out After Long Time Operation



N.A.1.25 Swing-out Achromatic Condenser Center Adjustable, Horizontally Insert, Vertically Raise. Adjustable Aperture Diaphragm With Scale Remedies The Disadvantage Of Fixed Condenser, Provides Ample Uniform Light And Clear Image For Different Magnification Observation



Low Position Focusing Knob For Comfortable Operation, With Upper Limited And Tension Adjustable Function, Help To Protect Slides And Objective Lens

A15.0908 Polarizing Microscope

#### **Optional Accessories**

A15.0908 Polarizing Microscope Optional Accessories						
Eveniege	High Eye-point PL10x/22mm with Micrometer, Diopter Adjustable	A51.0905-1022R				
Eyepiece	High Eye-point PL15x/16mm					
Working Stage	Attachable Mechanical Moving Stage For Circular Stage, Moving Range: 30mm*40mm; High Precision Micrometer, 0.01mm Increment	A54.0946				
	1x C-Mount, Focus Adjustable	A55.0926-10				
CCD Adapter	0.50x, For 1/2" C-Mount, Focus Adjustable	A55.0926-50				
	0.67x, For 2/3" C-Mount, Focus Adjustable	A55.0926-67				

## A15.1302 Polarizing Microscope

#### OPTO-EDU



Economical Polarizing Microscope With Full Polarizing Function Round Stage Dia.120mm 360° Rotatable Minimum 6' Scale Polarizer On Light Collector 360° Rotatable Analyzer Medium Unit With Optical Compensator  $\lambda$  Slip (First Class Red), 1/4 $\lambda$  Slip Transmit Light 1W LED Brightness Adjustable

Items	A15.1302-A	A15.1302-B	A15.1302-C			
Head	Monocular Head, 30°	Binocular Head, 30° Inclined,	Trinocular Head, 30° Inclined,			
Tieau	Inclined	Interpupillary Distance 55~75mm	Interpupillary Distance 55~75mm			
	WF10x/18mm,	WF10x/18mm, High Eyepoint, 1pc	WF10x/18mm, High Eyepoint, 1pc			
Eyepiece	With Retical 0.1mm/Div	WF10x/18mm, With Retical	WF10x/18mm, With Retical			
		0.1mm/Div, 1pc	0.1mm/Div, 1pc			
Nosepiece	ce Backward, Quadruple Nosepiece					
Objective	ve Achromatic 4x,10x,40x(S),100x(O,S), 45mm DIN					
Working	king Round Stage Dia 120mm, 360° Rotatable, Graduation 1° Increment, Minimum Resolution 6', When					
Stage	Using Venire Scale Center A	Adjustable				
Condenser	Abbe N.A.1.25, With Dia 2~	30mm Iris Diaphragm, With Filter Dia.	32mm			
Focusing	Coarse & Fine Focusing Kno	ob, Range 14mm, Minimum Division C	Of Fine Focusing 0.01mm			
Light	Build-in LED, 3.5V/1W, Brig	htness Adjustable.				
	Polarizer: On Light Collector	r, 360º Rotatable				
	Analyzer: Rotatable With Gr	aduation 0~90°, Can Be Slided Out of	Optical Path			
Polarizing	g Optical Compensator :					
	λ Slip (First Class Red)					
	1/4λ Slip					

### A15.1017 Polarizing Microscope

#### OPTO-EDU



Polarizer, Sliding In/Out of Optical Path, On Top Of Collector

Outward Quadruple Nosepiece, Center Adjustable Strain Free Achromatic Objective 4x,10x,40x For Polarizing View Round Stage Dia.160mm, 360° Rotatable Center Adjustable Polarizer On Collector, Can Switch Out Of Light Path Analyzer Unit With Bertrand Lens,  $\lambda$  Slip, 1/4 $\lambda$  Slip, Quartz Wedge

Items	A15.1017 Polarizing Microscope	В	Т	
Llood	Sliding Binocular Head, 45° Inclined, 360° Rotatable	0		
Head	Sliding Trinocular Head, 45° Inclined, 360° Rotatable		0	
<b>E</b> venie ee	VF10x/18mm			
Eyepiece	WF10x/18mm, With Scale Of Crosshair			
Objective	Strain Free Achromatic Objective 4x,10x,40x			
Nosepiece	Outward Quadruple Nosepiece, Center Adjustable			
	Rotatable Analyzer With Graduation 0~90° Bertrand Lens, Sliding In/Out Of Optical Path Optical Compensator : λ Slip, First Class Red 1/4λ Slip Quartz Wedge			
1  WORKING STAGE	Round Stage Dia.160mm, 360° Rotatable, Graduation 1° Increment, Minimum Reso Adjustable	lution 6',	Center	
Focusing	Coaxial Coarse & Fine Adjustment, Focusing Range 28mm, Fine Focusing Division	0.002mm	ı	
Condenser	Abbe Condenser N.A.1.25, WIth Iris Diaphragm & Filter			
Polarizer	Swing-Out Polarizer 0~90° Rotatable, Located On Top Of Collector			
Illumination	Halogen Lamp 6V20W, Brightness Adjustable			

# A15.1018 Polarizing Microscope, Transmit Light

#### OPTO-EDU

Quintuple Nosepiece Center Adjustable Strain-free Infinity Plan Objectives 4x10x40x100x Round Stage Dia.170mm Center Adjustable Analyizer Unit With Bertrand Lens, λ Slip, 1/4λ Slip, Quartz Wedge Transmit Halogen 24V100W Brightness Adjustable

Photo Adapter

C-Mount 1.0x

Adapter

Items	A15.1018 Transmit Polarizing Microscope				
Optical Syster	n Infinity Optical System				
Head	Seidentopf Trinocular Head, 30° Inclined, Interpupillary 48~75mm, Diopter /	Adjustable			
	Plan Eyepiece EW10x/22mm, Eyepiece Tube Dia.30mm				
Eyepiece	Plan Eyepiece With Scale of Crosshair				
Lyepiece	Plan Eyepiece With Cross				
	Plan Eyepiece With Gridding				
	Strainfree Infinity Plan Achromatic Objective				
	4x/0.10/∞/- W.D.17.3mm				
Objective 10x/0.25/∞/0.17 W.D.10mm					
	40x/0.65/∞/0.17 W.D.0.54mm				
	100x/1.25/∞/0.17 W.D.0.13mm				
Nosepiece	Backward Quintuple Nosepiece, Center Adjustable				
360° Dial Rotation Analyzer, Minimum Scale Reading 0.1° (Vernial Scale)					
Analyzer	Switch Between Orthoscopic And Conoscopic Observation				
7 (10)/201	Bertrand Lens Postion Adjustable				
	Optical Compensator: $\lambda$ Slip (First Class Red), 1/4 $\lambda$ Slip, Quartz Wedge				
	Polarizing Rotatable Stage, Dia.170mm, Center Adjustable				
Working Stage	360° Scale, Minimum Division 1°				
	Minimum Reading 6 By Means of Vernial Scale				
Ormalanaan	45° Click Stop Knob				
Condenser	Strainfree Swing Condenser N.A.0.95/0.25	004			
Focusing	Coaxial Coarse & Fine Adjustment, Focusing Range 32mm, Fine Division 0 37.7mm Per Rotation, Fine Stroke 0.1mm Per Rotation	.001mm, Coarse Stroke			
Polarizer					
Filter	360° Rotatable, 0° Position Adjustable Blue Filter, Dia.45mm				
Illumination	Transmit Illumination Halogen Lamp 24V100W, Brightness Adjustable				
murmiation	Transmit indimination flatogen Lamp 24 v 100 vv, Dignitiess Aujustable				
	A15.1018 Transmit Polarizing Microscope Optional Accessori	ies			
Objective	Strainfree Infinity Plan Achromatic Objective 20x/0.4/∞/- W.D. 5.1mm	A5P.1030-20			
Stage	Attachable Stage, Moving Range 30*40mm	A54.1008			
Filter	Netural Filter ND25	A5F.1011-25			
FIILEI	Netural Filter ND26	A5F.1011-6			

101

A55.1001

A55.1002-10

#### A15.1019 Polarizing Microscope, Relfect & Transmit Light



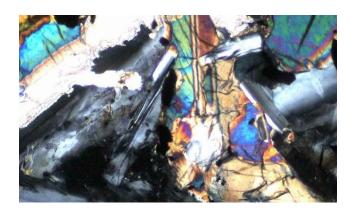


Polarizing Rotatable Stage, Center Adjustable Minimum Reading 6' By Means of Vernal Scale 45° Click Stop Knob Quintuple Nosepiece Center Adjustable LWD Strain-free Infinity Plan Objectives 5x10x40x100xRound Stage Dia.170mm Center Adjustable Analyzer Unit With Bertrand Lens,  $\lambda$  Slip,  $1/4\lambda$  Slip, Quartz Wedge Transmit & Reflect Halogen 24V100W Brightness Adjustable

A15.1019 Reflect, Reflect & Transmit Polarizing Microscope Optional Accessories				
Stage	Attachable Stage,	Attachable Stage, Moving Range 30*40mm		
	For	or Netural Filter ND25, Dia.45mm		
	Transmit Light:	Neutral Filter ND6, Dia.45mm	A5F.1011-6	
Filter		Blue Filter, Dia.25mm	A56.1008-B	
	For Reflect Light:	Netural Filter ND25, Dia.25mm	A5F.1011-25A	
	eeeg	Netural Filter ND6, Dia.25mm	A5F.1011-6A	
	Photo Adapter		A55.1001	
Adapter	Adapter C-Mount 1.0x		A55.1002-10	
	C-Mount 0.5x		A55.1002-05	

# **Product Specification**

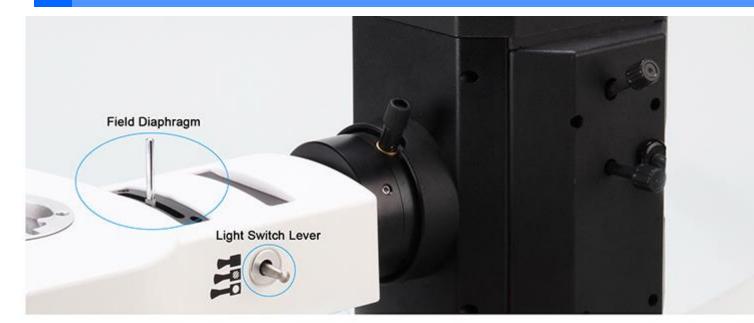
Items	A15.1019 Refle	ect, Reflect & Transmit Polarizing Microscope	Α	В			
Optical System	Infinity Optical System			-			
Head	Seidentopf Trinocular H	ead, 30° Inclined, Interpupillary 48~75mm, Diopter Adjustab	le				
	Plan Eyepiece EW10x/2	22mm, Eyepiece Tube Dia.30mm					
Eyepiece	Plan Eyepiece With Sca Plan Eyepiece With Cro Plan Eyepiece With Grid	SS					
Nosepiece	Backward Quintuple N	osepiece					
		5x/0.12/∞/- W.D.15.5mm					
	Strainfree LWD Infinity	10x/0.25/∞/- W.D.10mm					
	Plan Achromatic	20x/0.4/∞/0 W.D.4.3mm					
Objective	Objective	50X/0.75/∞/0 W.D.0.32mm					
		100x/0.8/∞/0 W.D.2mm					
	Strainfree Infinity Plan	40x/0.65/∞/0.17 W.D.0.54mm	-	0			
	Achromatic Objective	100x/1.25/∞/0.17 W.D.0.13mm	-	0			
Nosepiece	Backward Quintuple No	sepiece, Center Adjustable					
Analyzer	Switch Between Ortho	/zer, Minimum Scale Reading 0.1° (Vernial Scale) scopic And Conoscopic Observation Adjustable λ Slip (First Class Red), 1/4λ Slip, Quartz Wedge					
Working Stage	Polarizing Rotatable Sta 360° Scale, Minimum Di Minimum Reading 6' By 45° Click Stop Knob						
Condenser	Strainfree Swing Conde	nser N.A.0.95/0.25					
Focusing		Adjustment, Focusing Range 32mm, Fine Division 0.001mm ation, Fine Stroke 0.1mm Per Rotation	, Coa	arse			
Delector	For Reflect: Fixed Polar	izer					
Polarizer	For Transmit: 360° Rota	table Polarizer, 0° Position Adjustable	-	0			
	Reflect Light Halogen La	amp 24V100W, Brightness Adjustable		-			
Illumination	Transmit Light Halogen Blue Filter, Dia.45mm	Lamp 24V100W,Brightness Adjustable	-	o			







Six Holes Fluorescent Unit Can Hold Up To 5 Fluorescent Filter + Bright Field View 100W Mercury Fluorescent Light Source For Observe In Pathology, Clinical Lab Use Creative 100x Water Objective Instead Of I00x Oil Objective For Easy Use Without Oil High Rigidity Body Structure Design Supply High Steady And Easy Handle Different Color Available To Customize Your Model!



Items	A16.2601 Fluorescent Microscope Specification	-B2	-T2	-B4	-T4	Cata. No.
Head	Seidentopf Binocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-75mm	•	0	•	0	A53.2621-B
пеац	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-75mm, , Light Split Fixed P20:E80	0	•	0	•	A53.2621-T
Eyepiece	WF10X/20mm (High Eyepoint)	••	••	••	••	A51.2602-1020
Necericos	Quadruple, Backward	•	•	•	•	A54.2610-N734
Nosepiece	Quintuple, Backward	0	0	0	0	A54.2610-N735

	EPLAN 4x/0.10,W.D.=12.1mm	•	•	•	•	A52.2605-4
Infinity E-Plan	EPLAN 10x/0.25,W.D.=4.14mm	•	•	•	•	A52.2605-10
Objective	EPLAN 40x/0.65(S),W.D.=0.58mm	•	•	•	•	A52.2605-40
	EPLAN 100x/1.25(S, Oil),W.D.=0.19mm	•	•	•	•	A52.2605-100
Infinity Dian	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	0	0	A5F.2611-4
Infinity Plan	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0	0	0	0	A5F.2611-10
Semi-APO	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0	0	0	0	A5F.2611-20
Fluorescent	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0	0	0	0	A5F.2611-40
Objective	UplanFLN 100x(Oil), N.A.1.30,W.D.=0.15mm	0	0	0	0	A5F.2611-100
	Mechanical Stage Size: 145 mm×140mm, Travel: 76mmX52mm,					
	Scale: 0.1mm, Double Slide Holder	•	•	•	•	A54.2601-S04
Working Stage	Rackless (Integrated) Stage, Size 140×135mm,					
	Travel Range 75×35mm, Double Slide Holder	0	0	0	0	A54.2601-S12
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range:					
Focusing	26mm, Fine Focusing Travel Range: 2µm/Division	•	•	•	•	
Condenser	Abbe Condenser N.A.1.25, Iris Diaphragm, Rack & Pinion Up/Down	•	•	•	•	A56.2614-C06
Condenser	3W-LED Illumination Systems	•	•	•	•	A56.2613-3W
Illumination	12V/20W Halogen Lamp	•	•	0	0	A56.2650-20V
munmation	6V/30W Halogen Lamp	0	0	0	0	A56.2650-20V
	Upgrade To Kohler Illumnation		-			A56.2615-S
neiu Diapriragini		0	0	0	0	
	Dia.45mm, Blue	0	0	0	0	A56.2616-45B
Filter	Dia.45mm, Green	0	0	0	0	A56.2616-450
	Dia.45mm, Yellow	0	0	0	0	A56.2616-45A
Dark Field	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	0	0	0	A5D.2610-S
Polarizing	Analyzer + Polarizer Set	0	0	0	0	A5P.2601-S
	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide	0	0	0	0	A5C.2601-10
	10x + Phase Contrast Condenser + Telescope 11x + Green Filter					100.2001 10
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide	0	0	0		A5C.2601-20
	20x + Phase Contrast Condenser + Telescope 11x + Green Filter					730.2001-20
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide					A5C.2601-40
Phase Contrast	40x + Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	0	0	ASC.2601-40
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide					A5C.2601-100
	100x + Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	0	0	ASC.2601-100
	Turret Phase Contrast Attachment					
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret	0	0	0	0	A5C.2603-S
	Phase Contrast Condenser 5-Holes, Telescope 11x, Green Filter					
	Upgrade From A12.2601-C/CT Biological Microscope With:					
	B,G China Fluorescent Set					
	100W Mercury Lamp House					
	100W Mercury Power Box, Digital Disp.					
	6 Holes Disc Fluorescent Unit	•	•			A5F.2601-2
	Ultraviolet Protection Barrier					
	Centering Objective					
Fluorescence	China 100W Mercury Lamp 2 pcs					
Unit	Upgrade From A12.2601-C/CT Biological Microscope With:					
Onic	B,G,U,UV China Fluorescent Set					
	100W Mercury Lamp House					
	100W Mercury Power Box, Digital Disp.					
	6 Holes Disc Fluorescent Unit			•	•	A5F.2601-4
	Ultraviolet Protection Barrier					
	Centering Objective					
	China 100W Mercury Lamp 2 pcs		<u> </u>	<u> </u>		
	C-Mount 0.5x, Focus Adjustable	0	0	0	0	A55.2601-05
Adapter	C-Mount 0.75x, Focus Adjustable	0	0	0	0	A55.2601-75
Adapter	C-Mount1.0x, Focus Adjustable					A55.2601-10
•	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm					A55.2610
Mirror	Reflecting Mirror & Holder	0	0	0	0	A56.2601
		0	0 0	0 0	0	A56.2601 A50.2602-S
Mirror	Reflecting Mirror & Holder					

# A16.2601-L LED Fluorescent Microscope

#### OPTO-EDU



Six Holes Fluorescent Turret

Six Holes Fluorescent Unit Can Hold Up To 5 Fluorescent Filter + Bright Field View 5W LED Fluorescent Light Source For Observe In Pathology, Clinical Lab Use Creative 100x Water Objective Instead Of I00x Oil Objective For Easy Use Without Oil High Rigidity Body Structure Design Supply High Steady And Easy Handle Different Color Available To Customize Your Model!

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Turret Phase Contrast Attachment

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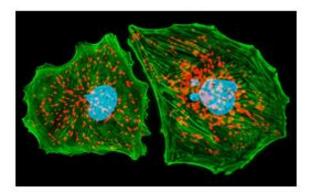
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Items	A16.2601-L LED Fluorescent Microscope Specification	-B2	-T2	-B4	-T4	Cata. No.
	Seidentopf Binocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-75mm	•	0	•	0	A53.2621-B
	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-75mm, Light Split Fixed P20:E80	0	•	0	•	A53.2621-T

Eyepiece	WF10X/20mm (High Eyepoint)	••	••	••		A51.2602-1020
Nosepiece	Quadruple, Backward	•	•	•		A54.2610-N734
1000001000	Quintuple, Backward	0	0	0		A54.2610-N73
	EPLAN 4x/0.10,W.D.=12.1mm	•	•	•		A52.2605-4
Infinity	EPLAN 10x/0.25,W.D.=4.14mm	•	•	•		A52.2605-10
E-Plan Objective	EPLAN 40x/0.65(S),W.D.=0.58mm	•	•	•		A52.2605-40
	EPLAN 100x/1.25(S, Oil),W.D.=0.19mm	•	•	•	•	A52.2605-100
Infinity Plan	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	0	0	A5F.2611-4
Semi-APO	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0	0	0	0	A5F.2611-10
Fluorescent	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0	0	0	0	A5F.2611-20
Objective	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0	0	0	0	A5F.2611-40
Objective	UplanFLN 100x(Oil), N.A.1.30, W.D.=0.15mm	0	0	0	0	A5F.2611-100
	Mechanical Stage Size: 145 mm×140mm, Travel: 76mmX52mm,	-	-	-	_	AE4 2004 004
	Scale: 0.1mm, Double Slide Holder	•	•	•	•	A54.2601-S04
Working Stage	Rackless (Integrated) Stage, Size 140×135mm,					154 0004 040
	Travel Range 75x35mm, Double Slide Holder	0	0	0	0	A54.2601-S12
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range:					
Focusing	26mm, Fine Focusing Travel Range: 2µm/Division	•	•	٠	•	
Condenser	Abbe Condenser N.A.1.25, Iris Diaphragm, Rack & Pinion Up/Down	•	•	•	•	A56.2614-C06
	3W-LED Illumination Systems	•	•	•	•	A56.2613-3W
Illumination	12V/20W Halogen Lamp	0	0	0	0	A56.2650-20W
manmadon	6V/30W Halogen Lamp	0	0	0	0	A56.2650-30W
ield Dianhragm	Upgrade To Kohler Illumnation	0	0	0	0	A56.2615-S
leiu Diapiliagili	Dia.45mm, Blue	0	0	0		A56.2616-45B
Filter	Dia.45mm, Green					A56.2616-45B
Filler		0	0	0	0	
Davis Field	Dia.45mm, Yellow	0	0	0	0	A56.2616-45A
Dark Field	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	0	0	0	A5D.2610-S
Polarizing	Analyzer + Polarizer Set	0	0	0	0	A5P.2601-S
	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide	0	0	0	0	A5C.2601-10
	10x + Phase Contrast Condenser + Telescope 11x + Green Filter					
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide	0	0	0	0	A5C.2601-20
	20x + Phase Contrast Condenser + Telescope 11x + Green Filter					
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide	0	0	0	0	A5C.2601-40
Phase Contrast	40x + Phase Contrast Condenser + Telescope 11x + Green Filter					7.00.2001 40
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide	0	0	0	0	A5C.2601-100
	100x + Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	0	0	A30.2001-100
	Turret Phase Contrast Attachment					
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret	0	0	0	0	A5C.2603-S
	Phase Contrast Condenser 5-Holes, Telescope 11x, Green Filter					
	Upgrade From A12.2601-C/CT Biological Microscope With:					
	B,G China Fluorescent Set					
	6 Holes Disc Fluorescent Unit					
	5W LED Lamp House	•	•			A5F.2602-2
	5W LED Power Box					
	Ultraviolet Protection Barrier					
Fluorescence	Upgrade From A12.2601-C/CT Biological Microscope With:					
	B,G,U,UV China Fluorescent Set					
	6 Holes Disc Fluorescent Unit					
	5W LED Lamp House			٠	•	A5F.2602-4
	5W LED Power Box					
	Ultraviolet Protection Barrier					
	C-Mount 0.5x, Focus Adjustable	0	0	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0	0	0	0	A55.2601-05
Adapter	C-Mount1.0x, Focus Adjustable			0		A55.2601-75
NA:ma-	Upgrade From A12.2601-C/CT Fluorescence Microscope With:				-	A55.2610
Mirror	Reflecting Mirror & Holder	0	0	0		A56.2601
Attachment	Wire Winding Device	0	0	0	0	A50.2602-S
Package Weight	Carton Size 970×340×440mm, 1 pc / Ctn					
	Gross Weight: 22 kgs, Net Weight: 18 kgs					

# A16.2601-NL LED Fluorescent Microscope







Built-in All-in-One Fluorescent Media Unit 5W LED With 1 or 2 Filters Semi-APO Infinity Plan Fluorescent Objective Available For High Quality Image Creative 100x Water Objective Instead Of I00x Oil Objective For Easy Use Without Oil High Rigidity Body Structure Design Supply High Steady And Easy Handle Different Color Available To Customize Your Model!

#### A5F.2605 Newly Designed 2020 All-in-One Built-in Media Fluorescent Device For 2 Bands



Items	A16.2601-NL LED Fluorescent Microscope Specification	-1	-2	Cata. No.
Head	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-75mm, Light Split Fixed P20:E80	•	•	A53.2621-T
Eyepiece	WF10X/20mm (High Eyepoint)	••	••	A51.2602-1020
Neceriese	Quadruple, Backward	•	•	A54.2610-N734
Nosepiece	Quintuple, Backward	0	0	A54.2610-N735
	EPLAN 4x/0.10,W.D.=12.1mm	•	•	A52.2605-4
Infinity	EPLAN 10x/0.25,W.D.=4.14mm	•	•	A52.2605-10
-Plan Objective	EPLAN 40x/0.65(S),W.D.=0.58mm	•	•	A52.2605-40
	EPLAN 100x/1.25(S, Oil),W.D.=0.19mm	•	•	A52.2605-100
	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	A5F.2611-4
Infinity Plan	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0		A5F.2611-10
Semi-APO	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0		A5F.2611-20
Fluorescent	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0		A5F.2611-40
Objective	UplanFLN 100x(Oil), N.A.1.30, W.D.=0.15mm	0		A5F.2611-100
	Mechanical Stage Size: 145 mm×140mm, Travel: 76mmX52mm, Scale:			
	0.1mm, Double Slide Holder	•	•	A54.2601-S04
Working Stage	Rackless (Integrated) Stage, Size 140×135mm,			
	Travel Range 75×35mm, Double Slide Holder	0	0	A54.2601-S12
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 26mm,			
Focusing	Fine Focusing Travel Range: 2µm/Division	•	٠	
Condenser	Abbe Condenser N.A.1.25, Iris Diaphragm, Rack & Pinion Up/Down		•	A56.2614-C06t
Condensei		•		
	3W-LED Illumination Systems	•		A56.2613-3W
Illumination	12V/20W Halogen Lamp	0		A56.2650-20W
	6V/30W Halogen Lamp	0		A56.2650-30W
field Diaphragm	Upgrade To Kohler Illumnation	0		A56.2615-S
	Dia.45mm, Blue	0		A56.2616-45B
Filter	Dia.45mm, Green	0		A56.2616-45G
	Dia.45mm, Yellow	0		A56.2616-45A
Dark Field	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0		A5D.2610-S
Polarizing	Analyzer + Polarizer Set	0	0	A5P.2601-S
	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide 10x +	0	0	A5C.2601-10
	Phase Contrast Condenser + Telescope 11x + Green Filter			A30.2001-10
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide 20x +	0	0	A5C.2601-20
	Phase Contrast Condenser + Telescope 11x + Green Filter		0	AJC.2001-20
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide 40x +		~	A5C.2601-40
Phase Contrast	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	ASC.2001-40
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide 100x +		_	AEC 2001 100
	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2601-100
	Turret Phase Contrast Attachment			
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret Phase	0	0	A5C.2603-S
	Contrast Condenser 5-Holes, Telescope 11x, Green Filter			
	Upgrade From A12.2601-C/CT Biological Microscope With:			
	5W LED Fluorescent Built-in Media Device.			
	Single Band, China Filter B or G	•		A5F.2605-1
-	Ultraviolet Protection Barrier			
Fluorescence	Upgrade From A12.2601-C/CT Biological Microscope With:			
	5W LED Fluorescent Built-in Media Device,			
	Double Band, China Filter B + G		•	A5F.2605-2
	Ultraviolet Protection Barrier			
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0		A55.2601-75
Adapter	C-Mount1.0x, Focus Adjustable			A55.2601-75
	Upgrade From A12.2601-C/CT Fluorescence Microscope With:			A55.2610
Mirror	Reflecting Mirror & Holder		0	A55.2610
Attachment		0		A50.2601 A50.2602-S
	Wire Winding Device	0	υ	A30.2002-3
Package Weight	Carton Size 970×340×440mm, 1 pc / Ctn Gross Weight: 22 kgs, Net Weight: 18 kgs			



100W Mercury Fluorescent Light Source For Observe In Pathology, Clinical Lab Use Large Head Eyepiece Tube Dia.30mm + Super Wide Field SWF10x/22mm Eyepiece Rackless Large Mechanical Stag 182x140mm/77x52m With Double Slide Holder Swing Out Condenser N.A. 0.9/0.13 + High Brightness 6V30W Halogen Koehler Illumination



Items	A16.2603 Fluorescent Microscope Specification	-B2	-T2	-B4	-T4	Cata. No.
	Seidentopf Binocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm	•	0	•	0	A53.2623-B
Head	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm	0	•	0	•	A53.2623-T
Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	••	••	••	••	A51.2621-1022
Nosepiece	Quintuple	•	٠	•	٠	A54.2610-N01

	PLAN 2.5X/0.07,W.D.=8.47mm	0	0	0	0	A52.2606-2.5
	PLAN 4X/0.10,W.D.=12.10mm	•	•	•	•	A52.2606-4
	PLAN 10X/0.25,,W.D.=4.64mm	•	•	•	•	A52.2606-10
Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	•	•	•	A52.2606-20
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	•	•	•	•	A52.2606-40
	PLAN 60X/0.80(S),W.D.=0.33mm	0	0	0	0	A52.2606-60
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	•	•	•	•	A52.2606-100
	PLAN 100X/1.15(S,Water),W.D.=0.19mm	0	0	0	0	A52.2606-100W
	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	0	0	A5F.2611-4
Infinity Plan	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0	0	0	0	A5F.2611-10
Semi-APO	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0	0	0	0	A5F.2611-20
Fluorescent						
Objective	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0	0	0	0	A5F.2611-40
•	UplanFLN 100x(Oil), N.A.1.30, W.D.=0.15mm	0	0	0	0	A5F.2611-100
	Rackless (Integrated) Mechanical Stage, Size 182×140mm, Travel	•	•	•	•	A54.2601-S10
Working Stage	Range 77×52mm, Double Slide Holder					7104.2001 010
Working Stage	Mechanical Stage Size 175 mm×145mm, Travel 76mmX52mm,					A54.2601-S01
	Scale: 0.1mm, Double Slide Holder	0	0	0	0	A34.2001-501
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range:					
Focusing	22mm, Fine Focusing Div. 0.002mm	•	•	•	•	
Condenser	Swing-out Condenser,N.A.0.9/0.13,Iris Diaphragm	•	•	•	•	A56.2614-07a
Condensei		•	•	•		AJ0.2014-07a
Illumination	Transmit Light 6V30W Halogen	•	•	•	•	A56.2613-30W
	Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm				<u> </u>	
Field Diaphragm	For Kohler Illumnation	•	•	•	•	A56.2615-BK
	Dia.45mm, Blue	•	•	•	•	A56.2616-45B
Filter	Dia.45mm, Green	0	0	0	0	A56.2616-45G
	Dia.45mm, Yellow	0	0	0	0	A56.2616-45A
	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	0	0	0	A5D.2610-BK
Dark Field	Dark Field Condenser, Immersion, N.A.1.3, For 100x Objective					A5D.2610-BKW
Polarizing	Analyzer + Polarizer Set	0	0	0	0	A5P.2601-BK
rolanzing	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide					7.01 .2001 DR
		0	0	0	0	A5C.2602-10
	10x + Phase Contrast Condenser + Telescope 11x + Green Filter					
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide	0	0	0	0	A5C.2602-20
	20x + Phase Contrast Condenser + Telescope 11x + Green Filter					
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide	0	0	0	0	A5C.2602-40
Phase Contrast	40x + Phase Contrast Condenser + Telescope 11x + Green Filter					AJO.2002-40
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide	_	_	_		450 0000 400
	100x + Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	0	0	A5C.2602-100
	Turret Phase Contrast Attachment					
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret	0	0	0	0	A5C.2603-BK
	Phase Contrast Condenser 5-Holes, Telescope 11x, Green Filter					7.00.2000 BIX
					ļ	
	Upgrade From A12.2603-B/T Biological Microscope With					
	B,G China Fluorescent Set					
	B,G China Fluorescent Set 100W Mercury Lamp House					
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp.	•	•			A5F.2601-2
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit	•	•			A5F.2601-2
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier	•	•			A5F.2601-2
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit	•	•			A5F.2601-2
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier	•	•			A5F.2601-2
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs	•	•			A5F.2601-2
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With	•	•			A5F.2601-2
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set	•	•			A5F.2601-2
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House	•	•			A5F.2601-2
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp.	•	•	•	•	A5F.2601-2 A5F.2601-4
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit	•	•	•	•	
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier	•	•	•	•	
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective	•	•	•	•	
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs	•	•	•	•	A5F.2601-4
Fluorescence	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs C-Mount 0.5x, Focus Adjustable	•	•	•	•	
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs	• • •	•	•		A5F.2601-4
Fluorescence Adapter	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs C-Mount 0.5x, Focus Adjustable				0	A5F.2601-4 A55.2601-05
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable	0	0	0	0	A5F.2601-4 A55.2601-05 A55.2601-75 A55.2601-10
Adapter	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount 1.0x, Focus Adjustable Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0	0	0	000000000000000000000000000000000000000	A5F.2601-4 A55.2601-05 A55.2601-75
	B,G China Fluorescent Set 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs Upgrade From A12.2603-B/T Biological Microscope With B,G,U,UV China Fluorescent Set 100W Mercury Lamp House 100W Mercury Lamp House 100W Mercury Power Box, Digital Disp. 6 Holes Disc Fluorescent Unit Ultraviolet Protection Barrier Centering Objective China 100W Mercury Lamp 2 pcs C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable	0	0	0	000000000000000000000000000000000000000	A5F.2601-4 A55.2601-05 A55.2601-75 A55.2601-10

# A16.2603-L LED Fluorescent Microscope

#### OPTO-EDU



Six Holes Fluorescent Turret

Six Holes Fluorescent Unit Can Hold Up To 5 Fluorescent Filter + Bright Field View 5W LED Fluorescent Light Source For Observe In Pathology, Clinical Lab Use Large Head Eyepiece Tube Dia.30mm + Super Wide Field SWF10x/22mm Eyepiece Rackless Large Mechanical Stag 182x140mm/77x52m With Double Slide Holder Swing Out Condenser N.A. 0.9/0.13 + High Brightness 6V30W Halogen Koehler Illumination

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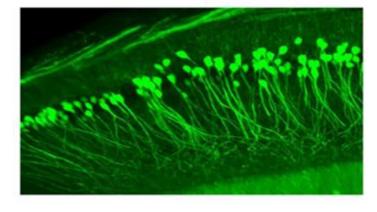


Items	A16.2603-L LED Fluorescent Microscope Specification	B2	<b>T2</b>	<b>B4</b>	Т4	Cata. No.
	Seidentopf Binocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Eyepiece Tube Dia.30mm	•	0	•	0	A53.2623-B
Head	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary Distance 48-76mm, Light Split Switch E100:P0/E20:P80, Eyepiece Tube Dia.30mm	0	•	0	•	A53.2623-T

Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	••	••	••		A51.2621-1022
Nosepiece	Quintuple	٠	٠	•		A54.2610-N01
	PLAN 2.5X/0.07,W.D.=8.47mm	0	0	0	_	A52.2606-2.5
	PLAN 4X/0.10,W.D.=12.10mm	•	•	•	•	A52.2606-4
	PLAN 10X/0.25,,W.D.=4.64mm	•	•	•	•	A52.2606-10
Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	•	•	•	A52.2606-20
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	•	•	•	•	A52.2606-40
	PLAN 60X/0.80(S),W.D.=0.33mm	0	0	0	0	A52.2606-60
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	•	•	•	•	A52.2606-100
	PLAN 100X/1.15(S,Water),W.D.=0.19mm	0	0	0	0	A52.2606-100W
	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	0	0	A5F.2611-4
Infinity Plan	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0	0	0	0	A5F.2611-10
Semi-APO	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0	0	0	0	A5F.2611-20
Fluorescent	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0	0	0	0	A5F.2611-40
Objective	UplanFLN 100x(Oil), N.A.1.30, W.D.=0.15mm	0	0	0		A5F.2611-100
	Rackless (Integrated) Mechanical Stage, Size 182×140mm, Travel					
	Range 77×52mm, Double Slide Holder	٠	•	•	•	A54.2601-S10
Working Stage	Mechanical Stage Size 175 mm×145mm, Travel 76mmX52mm, Scale:					
	0.1mm, Double Slide Holder	0	0	0	0	A54.2601-S01
	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range:					
Focusing	22mm, Fine Focusing Div. 0.002mm	٠	٠	•	•	
Condenser	Swing-out Condenser,N.A.0.9/0.13,Iris Diaphragm	•	•	•	-	A56.2614-07a
Condensei	Transmit Light 6V30W Halogen	•	•	-		A30.2014-07a
Illumination	Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	٠	٠	•	•	A56.2650-30W
Field Diaphragm	For Kohler Illumnation	•	•	•		A56.2615-BK
rielu Diapriragini	Dia.45mm, Blue	•	•	•		A56.2616-45B
Filter	· · · · ·	-	•			A56.2616-45B
Filler	Dia.45mm, Green	0	0	0	-	
	Dia.45mm, Yellow	0	0	0		A56.2616-45A
Dark Field	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	0	0		A5D.2610-BK
Delevision	Dark Field Condenser, Immersion, N.A.1.3, For 100x Objective				<u> </u>	A5D.2610-BKW
Polarizing	Analyzer + Polarizer Set	0	0	0		A5P.2601-BK
	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide 10x +	0	0	0	0	A5C.2602-10
	Phase Contrast Condenser + Telescope 11x + Green Filter				<u> </u>	
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide 20x +	0	0	0	0	A5C.2602-20
	Phase Contrast Condenser + Telescope 11x + Green Filter				<u> </u>	
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide 40x +	0	0	0	0	A5C.2602-40
Phase Contrast	Phase Contrast Condenser + Telescope 11x + Green Filter	_	-			
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide	0	0	0	0	A5C.2602-100
	100x + Phase Contrast Condenser + Telescope 11x + Green Filter					100.2002 100
	Turret Phase Contrast Attachment					
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret Phase	0	0	0	0	A5C.2603-BK
	Contrast Condenser 5-Holes, Telescope 11x, Green Filter				<u> </u>	
	Upgrade From A12.2603-B/T Biological Microscope With					
	B,G China Fluorescent Set					
	6 Holes Disc Fluorescent Unit	•				A5F.2602-2
	5W LED Lamp House	•	•			101.2002.2
	5W LED Power Box					
Fluorescence	Ultraviolet Protection Barrier					
I IUDIESCENCE	Upgrade From A12.2603-B/T Biological Microscope With					
	B,G,U,UV China Fluorescent Set					
	6 Holes Disc Fluorescent Unit			•		A5F.2602-4
	5W LED Lamp House					AJI .2002-4
	5W LED Power Box					
	Ultraviolet Protection Barrier					
	C-Mount 0.5x, Focus Adjustable	0	0	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0	0	0		A55.2601-75
A class to t						A55.2601-10
Adapter	C-Mount 1.0x, Focus Adjustable	0	0	0		A33.2001-10
Adapter		0	0	0		
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm					A55.2610
Adapter Package Weight						

# A16.2603-NL LED Fluorescent Microscope





Built-in All-in-One Fluorescent Media Unit 5W LED With 1 or 2 Filters Semi-APO Infinity Plan Fluorescent Objective Available For High Quality Image Large Head Eyepiece Tube Dia.30mm + Super Wide Field SWF10x/22mm Eyepiece Rackless Large Mechanical Stag 182x140mm/77x52m With Double Slide Holder Swing Out Condenser N.A. 0.9/0.13 + High Brightness 6V30W Halogen Koehler Illumination

#### A5F.2605 Newly Designed 2020 All-in-One Built-in Media Fluorescent Device For 2 Bands



Items	A16.2603-NL LED Fluorescent Microscope Specification	-1	-2	Cata. No.
	Seidentopf Trinocular Head Inclined 30°,Rotatable 360°, Interpupilary			
Head	Distance 48-76mm, Light Split Switch E100:P0/E20:P80,	•	•	A53.2623-T
	Eyepiece Tube Dia.30mm			
Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable	••		A51.2621-1022
Nosepiece	Quintuple	•	-	A54.2610-N01
	PLAN 2.5X/0.07,W.D.=8.47mm	0	0	A52.2606-2.5
	PLAN 4X/0.10,W.D.=12.10mm	•	•	A52.2606-4
	PLAN 10X/0.25,,W.D.=4.64mm	•		A52.2606-10
Infinity Plan	PLAN 20X/0.40(S),W.D.=2.41mm	•	-	A52.2606-20
Objective	PLAN 40X/0.66(S),W.D.=0.65mm	•	-	A52.2606-40
	PLAN 60X/0.80(S),W.D.=0.33mm	0	-	A52.2606-60
	PLAN 100X/1.25(S,Oil),W.D.=0.12mm	•	-	A52.2606-100
	PLAN 100X/1.15(S,Water),W.D.=0.19mm	0	0	A52.2606-100V
Infinity Plan	UplanFLN 4x, N.A.0.16, W.D.=17.151mm	0	0	A5F.2611-4
Semi-APO	UplanFLN 10x, N.A.0.30, W.D.=7.68mm	0	0	A5F.2611-10
Fluorescent	UplanFLN 20x, N.A.0.50, W.D.=1.96mm	0	-	A5F.2611-20
Objective	UplanFLN 40x, N.A.0.75, W.D.=0.78mm	0	0	A5F.2611-40
Objective	UplanFLN 100x(Oil), N.A.1.30,W.D.=0.15mm	0	0	A5F.2611-100
	Rackless (Integrated) Mechanical Stage, Size 182×140mm, Travel Range			A54.2601-S10
Working Stage	77×52mm, Double Slide Holder	•	•	A34.2001-510
Working Stage	Mechanical Stage Size 175 mm×145mm, Travel 76mmX52mm, Scale:			A54.2601-S01
	0.1mm, Double Slide Holder	0	0	A34.2001-301
Facusing	Coaxial Coarse & Fine Focusing, Coarse Focusing Travel Range: 22mm,	_	_	
Focusing	Fine Focusing Div. 0.002mm	•	•	
Condenser	Swing-out Condenser, N.A.0.9/0.13, Iris Diaphragm	•	•	A56.2614-07a
III	Transmit Light 6V30W Halogen			
Illumination	Koehler Illumination, Wide Voltage 100V~240V, Field Diaphragm	•	•	A56.2650-30W
Field Diaphragm	For Kohler Illumnation	•	•	A56.2615-BK
	Dia.45mm, Blue	•	•	A56.2616-45B
Filter	Dia.45mm, Green	0	0	A56.2616-45G
	Dia.45mm, Yellow	0		A56.2616-45A
	Dark Field Condenser, Dry, N.A.0.83-0.91, For 4x10x40x Objective	0	-	A5D.2610-BK
Dark Field	Dark Field Condenser, Immersion, N.A.1.3, For 100x Objective			A5D.2610-BKW
Polarizing	Analyzer + Polarizer Set	0	0	A5P.2601-BK
5	Infinity Plan Phase Contrast Objective 10x + Phase Contrast Slide 10x +			
	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2602-10
	Infinity Plan Phase Contrast Objective 20x + Phase Contrast Slide 20x +			
	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2602-20
	Infinity Plan Phase Contrast Objective 40x + Phase Contrast Slide 40x +			
Phase Contrast	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2602-40
	Infinity Plan Phase Contrast Objective 100x + Phase Contrast Slide 100x +			
	Phase Contrast Condenser + Telescope 11x + Green Filter	0	0	A5C.2602-100
	Turret Phase Contrast Attachment			
	Infinity Plan Phase Contrast Objective 10x20x40x100x, Turret Phase	0	0	A5C.2603-BK
	Contrast Condenser 5-Holes, Telescope 11x, Green Filter			
	Upgrade From A12.2603-B/T Biological Microscope With			
	5W LED Fluorescent Built-in Media Device,			<b>_</b>
	Single Band, China Filter B or G	•		A5F.2605-1
	Ultraviolet Protection Barrier			
Fluorescence	Upgrade From A12.2603-B/T Biological Microscope With			
	5W LED Fluorescent Built-in Media Device,			
	Double Band, China Filter B + G		•	A5F.2605-2
	Ultraviolet Protection Barrier			
	C-Mount 0.5x, Focus Adjustable	0	0	A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0		A55.2601-05
Adapter	C-Mount 1.0x, Focus Adjustable	0	-	A55.2601-75
	Digital Eyepiece Camera Adapter, Dia. 23.2mm/25mm	0	-	
Package	Carton Size 970×340×440mm, 1 pc / Ctn			AJJ.2010
	Gross Weight: 22 kgs, Net Weight: 18 kgs			

Note: "•"In Table Is Standard outfits, "o" Is Optional Accessories

# A16.2614-L Inverted LED Fluorescent Microscope

3 Holes Fluorescent Slide + 5W LED Fluorescent Illumination Seidentopf Trinocular Head, Light Split Switch E100:P0 / E20:P80 LWD Infinity Plan Objectives Bright Field & Phase Contrast Observation Supported LWD Condenser N.A.0.3 Working Distance 72mm, Up To 195mm Without Condenser Standard Halogen 6V30W Koehler Illumination, 5W LED Optional For Choice



OPTO-EDU

A54.2601-D4 Mechanical Stage Size 210x241mm Round Slide Size Φ110mm

OPTO-EDU

A54.2606-54 Culture Dish Holder 54mm

A54.2606-65 & A54.2606-35 Culture Dish Holder 65mm & Culture Dish Holder 35mm (Optional)



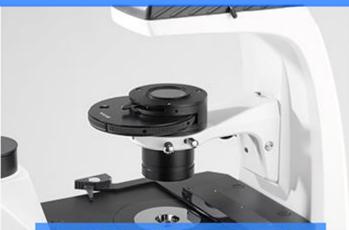
Items	A16.2614-L Inverted LED Fluorescent Microscope Specification	-2	-4	Cata. No.
Head	Seidentopf Trinocular Head Inclined 45°, Interpupilary Distance 48~76mm, Light Split Switch E100:P0 / E20:P80	•	•	A53.2643
	WF10x/22mm, Dia.30mm, High Eyepoint,, Diopter Adjustable	••	••	A51.2621-1022
	WF15X/16mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	00	A51.2621-1516
	WF20X/12mm, Dia.30mm, High Eyepoint, Diopter Adjustable	00	00	A51.2621-2012
	Quintuple	•		A54.2610-N925
	LPL 4x/0.11, W.D.=12.1mm	0		A52.2609-4
	LPL10x/0.25, W.D.=8.3mm	•		A52.2609-10
•	LPL 20x/0.40, W.D.=7.2mm	•		A52.2609-20
	LPL 40x/0.60, W.D.=3.4mm	•		A52.2609-40
	LPL Ph P $4x/0.10$ , W.D.=9.2mm	0		A5C.2630-4
_vvD infinity Plan	LPL Ph P 10x/0.25, W.D.=8.3mm	0		A5C.2630-10
Phase Contrast	LPL Ph P 20x/0.40, W.D.=7.2mm	•		A5C.2630-20
	LPL Ph P 40x/0.60, W.D.=3.4mm	•		A5C.2630-20
				A5C.2630-40
	Centering Telescope 11x	0		
Phace ( Antract	Annular Spot 4x	0		A5C.2611-4
	Annular Spot 20x/ 40x	•		A5C.2611-10
	Annular Spot 10x	•		A5C.2611-20/4
	Mechanical Stage Size 210x241mm, Round Slide Size Φ110mm	•	•	A54.2601-D4
	Attached Mechanical Stage, Available For 96 Holes Plate, Moving Range	0	0	A54.2605
	128x80mm			
Working Stage	Culture Dish Holder 65mm	0		A54.2606-65
	Culture Dish Holder 54mm	•	•	A54.2606-54
	Culture Dish Holder 35mm	0	0	A54.2606-35
	Holder For Blood Cell Counter	0	0	A54.2606-BC
Condenser	Long Working Distance, Quickly Detachable, N.A.0.3, Working Distance 72mm (With Condenser), 195mm (Without Condenser).	•	•	A56.2614-D4
	Koehler Illumination Halogen 6V/30W, Input Voltage 100V~240V	•	•	A56.2613-30W
	Koehler Illumination 5W LED, Input Voltage 100V~240V	0		A56.2651-5W
Power	ECO, Auto Power Off System. Power Off Automatically Upon User Leaving 10 Minutes, Power On Automatically Upon User Approaching Detected, This Function Can Be Shut Down Manually	0	0	A56.2660
	Blue, Dia.34mm	•	•	A56.2616-34B
	Green, Dia.34mm	•		A56.2616-34G
Filter	Amber, Dia.34mm			A56.2616-34A
		0		
	Grey, Dia.34mm	0		A56.2616-34N
	C-Mount 0.5x, Focus Adjustable	0		A55.2601-05
	C-Mount 0.75x, Focus Adjustable	0		A55.2601-75
	C-Mount1.0x, Focus Adjustable Upgrade From A14.2603 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable	•		A55.2601-10 A5F.2604-2
Illumination	5W LED B,G Lamp Each 1 pc Upgrade From A14.2603 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable	0	•	A5F.2604-4
	5W LED B,G,V,VU Lamp Each 1 pc			
	Packing Size: 660mmx590mmx325mm Fluorescence Carton Size 520x47	UX2	235r	nm
Weight	Gross Weight: 18 kgs, Net Weight: 13.5 kgs			



3 Holes Fluorescent Slide + 5W LED Fluorescent Illumination
ECO Automatic Power Off Upon User Leaving 10 Minutes & Power On Upon User Back
Dual Photo & Video Channel Support Eyepiece / Digital Camera / SLR Camera View At Same Time
LWD Infinity Plan Objectives Bright Field & Phase Contrast Observation Supported
4 Holes Disc Phase Contrast Condenser + Halogen 12V50W Koehler Illumination



12V/50W Kohler Illumination Makes The Field More Even And Brighter



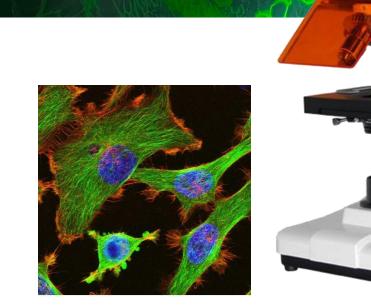
4-hole Rotating Disc Phase Contrast Condenser For Standard To Change Bright Field And Phase Contrast Fast

Items	A16.2615-L Inverted LED Fluorescent Microscope Specification	-2	-4	Cata. No.
Head	Seidentopf Trinocular Head Inclined 45°, Interpupilary Distance 48~76mm, , Light Split Switch E100:P0 / E20:P80 Dual Photo & Video Channel Support Eyepiece View / Digital Camera/SLR Camera Take Picture & Record Video At Same Time: Eyepiece View Has 100% Or 20% Light Switchable Digital Camera Port Has 0% Or 80% Light Switchable Photography Port 100% Light For SLR Camera	•	•	A53.2643
	(Standard Outfit Including SLR Camera Adapter 1pc)			

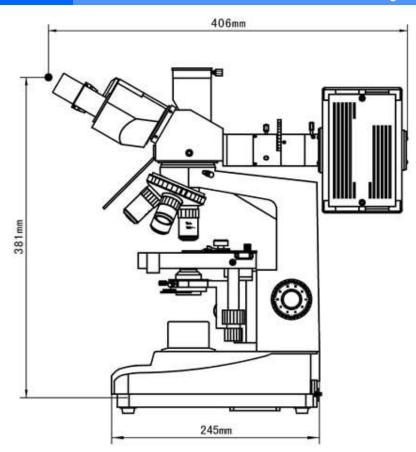
				1 = 1 0 0 0 1 1 0 0 0
			<u> </u>	A51.2621-1022
Eyepiece				A51.2621-1516
		00	<u> </u>	A51.2621-2012
Nosepiece	Quintuple	٠	•	A54.2610-N925
	LPL 4x/0.11, W.D.=12.1mm	•	•	A52.2609-4
LWD Infinity	LPL10x/0.25, W.D.=8.3mm	0	0	A52.2609-10
	LPL 20x/0.40, W.D.=7.2mm	0		A52.2609-20
	LPL 40x/0.60, W.D.=3.4mm	0		A52.2609-40
LMD Infinity	· · · · · · · · · · · · · · · · · · ·			A5C.2630-4
	LPL Ph P 4x/0.10, W.D.=9.2mm	0		
	LPL Ph P 10x/0.25, W.D.=8.3mm	•		A5C.2630-10
Contrast	LPL Ph P 20x/0.40, W.D.=7.2mm	•	<u> </u>	A5C.2630-20
Objectives	LPL Ph P 40x/0.60, W.D.=3.4mm	٠	•	A5C.2630-40
	4 Holes Rotating Disc Phase Contrast Condenser	-		A56.2612
	N.A.0.4, W.D. 45mm, Up/Down Adjustable	•	•	A30.2012
	Centering Telescope 11x	•	•	A5C.2610
Phase Contrast	Annular Spot 4x	0		A5C.2611-4
	Annular Spot 20x/ 40x	•		A5C.2611-10
	· · · · · · · · · · · · · · · · · · ·			
	Annular Spot 10x	•		A5C.2611-20/40
	Mechanical Stage Size 210x241mm, Round Slide Size Φ110mm	•	•	A54.2601-D4
	Attached Mechanical Stage, Available For 96 Holes Plate, Moving Range	•		A54.2605
	128x80mm	•		AJ4.200J
Norking Stage	Culture Dish Holder 65mm	0	0	A54.2606-65
	Culture Dish Holder 54mm	•	<u> </u>	A54.2606-54
	Culture Dish Holder 35mm	0		A54.2606-35
	Holder For Blood Cell Counter	0	<u> </u>	A54.2606-BC
Illumination	Koehler Illumination Halogen 12V/50W, Input Voltage 100V~240V	•		A56.2650-50W
manmadon	Koehler Illumination 5W LED, Input Voltage 100V~240V	0	0	A56.2651-5W
	ECO, Auto Power Off System.			
_	Power Off Automatically Upon User Leaving 10 Minutes,			
Power	Power On Automatically Upon User Approaching Detected,	•	•	A56.2660
	This Function Can Be Shut Down Manually			
	Blue, Dia.34mm	-	-	A56.2616-34B
	,	•		
Filter	Green, Dia.34mm	•		A56.2616-34G
	Amber, Dia.34mm	0		A56.2616-34A
	Grey, Dia.34mm	0	0	A56.2616-34N
	Photo Adapter With 1.7x Photo Eyepiece, 100% Light For Camera Port,	_		AFE 2022 DC17
	For Canon SLR Digital Camera	•	•	A55.2622-BC17
	Photo Adapter With 1.7x Photo Eyepiece, 100% Light For Camera Port,			
	For Nikon SLR Digital Camera	0	0	A55.2622-BN17
	Photo Adapter With 2.5x Photo Eyepiece, 100% Light For Camera Port,			
Adamtan	FIDID ADAPTED WITH 2.5X FIDID EVEPTICE, TOU % LIGHT FOT CATHERA FOIL,			
Adapter		0		A55.2622-BC25
	For Canon SLR Digital Camera With 1" CCD Sensor	0		A55.2622-BC25
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port,		0	
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor	0	0	A55.2622-BC25 A55.2622-BN25
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor		0	
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable	0	0 0	A55.2622-BN25 A55.2601-05
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece, 100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable	0	0 0 0	A55.2622-BN25 A55.2601-05
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter,	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter,	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter,	0 0 0	0 0 0	A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece, 100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount 1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Dewer Box	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece, 100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount 1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Dewer Box	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2
Fluorescence	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount 1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2
	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED Damp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED Lamp House 5W LED Lamp House 5W LED Lamp House 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G,V,VU Lamp Each 1 pc	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2 A5F.2604-4
Fluorescence Package Weight	For Canon SLR Digital Camera With 1" CCD Sensor Photo Adapter With 2.5x Photo Eyepiece,100% Light For Camera Port, For Nikon SLR Digital Camera With 1" CCD Sensor C-Mount 0.5x, Focus Adjustable C-Mount 0.75x, Focus Adjustable C-Mount 1.0x, Focus Adjustable Upgrade From A14.2605 Inverted Microscope With B,G China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED B,G Lamp Each 1 pc Upgrade From A14.2605 Inverted Microscope With B,G,V,VU China Fluorescent Filter, 5W LED Lamp House 5W LED Power Box Ultraviolet Protection Barrier Fluorescent Slide Unit 3 Holes, With Filter Diaphragm, Center Adjustable	0 0 0		A55.2622-BN25 A55.2601-05 A55.2601-75 A55.2601-10 A5F.2604-2 A5F.2604-4

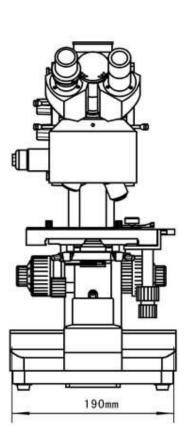
#### A16.0204 Flourescent Microscope

OPTO-EDU



Total Magnification 40x~1600x Achromatic Optical System Fluorescent Objective 25x, Epi-Fluorescence Mercury Lamp House 100W Light Source Double Layer Mechanical Stage, Size 135x125mm, Move Range 75x35mm Transmit Light 6V 20W Halogen Lamp, Adjustable Brightness Fluorescence Filter B,G,U,UV Exciton Wavelength Optional





#### **Product Specification**

#### A16.0204 Reflected Fluorescence Microscope

A16.0204 Reflected Fluorescence Microscope Model Is Used For Fluorescence Microscopy And Transmitted Bright Field Microscopy Observation. It Is The Ideal Instrument In Sediment In Sedimentary Rock, Inspection Of Impurity Of Semiconductor, Environmental Protection And Microchemistry Etc. It Is The Ideal Instrument In Biology, Cytology, Oncology, Genetics, Immunology Etc. It Also Can Be Used In Scientific Research, Universities, Medical Treatment, Epidemic Prevention Etc. --With Wide Field Eyepieces And Achromatic Objectives, The Field Of View Is Widely And Clear --Coaxial Coarse/Fine Focus System, With Tensional Adjustable And Up Stop, Minimum Division Of Fine Focusing 0.002mm --6Volt 20Watt Halogen Lamp With Brightness Control

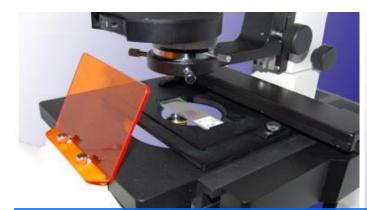
<b>F</b> uenie e							
Eyepiece	Wide Field WF10x/18mm						
Objective	chromatic 4x/0.10, 10x/0.25, 100x/1.25(Spring, Oil)						
	uorescence 25x/0.65						
Head	nocular, Inclination 30°, Rotatable 360°						
Focus System	axial Coarse & Fine Focus System, With Tensional Adjustable And Up Stop, Minimum Division of Fine cusing 0.002mm						
Nosepiece	Quadruple, Backward Ball Bearing Inner Locating	adruple, Backward Ball Bearing Inner Locating					
Stage	uble Layer Mechanical Stage, Size 135x125mm, Move Range 75x35mm						
Condenser	e Condenser N.A.1.25 Rack & Pinion Height Adjustable						
Filter	osted Filter						
	ue Filter						
Collector	For Halogen Lamp	Halogen Lamp					
Light Source	6V 20W Halogen Lamp, Adjustable Brightness	· ·					
	Mercury Lamp House 100W DC						
Reflected Epi-	Power Supply Unit AC 110V or 220V						
Fluorescence	Fluorescence Filter B Exciton Wavelength 450~490nm						
	Fluorescence Filter G Exciton Wavelength 495~555nm						
	A16.0204 Optional Accessories						
Eyepiece	Wide Field WF16x/11mm	A51.0203-16A					
	Dividing 10x/20mm, 0.1mm/Div	A51.0205-G10					
	Fluorescence Objectives FL 40x/1.00 (Spring, Glycerin)	A5F.0205-40					
Objectives	Fluorescence Objectives FL 100x/1.25 (Spring, Glycerin)	A5F.0205-100					
Nosepiece	Quintuple (Backward Ball Bearing Inner Locating)	A54.0203-1					
	Green	A56.0209-2					
Filter	Yellow	A56.0209-3					
Fluorescence	Power Supply Unit AC 110-220V Wide Voltage, For 100W Fluorescence, With Constant Power And Calculagraph	A5F.0204-3					
	Fluorescence Filter UV Exciton Wavelength 320~380nm	A5F.0201-UV					
Reflected Fluorescen	Fluorescence Filter V Exciton Wavelength 380~415nm	A5F.0201-V					
	Eyepiece: Centering Telescope	A5C.0204-1					
	Phase Contrast Plan Achromatic Objective 10x/0.25 PHP	A5C.0211-10					
	Phase Contrast Plan Achromatic Objective 20x/0.40 PHP	A5C.0211-20					
	Phase Contrast Plan Achromatic Objective 40x/0.65 PHP(Spring)	A5C.0211-40					
Phase Contrast Unit	Phase Contrast Plan Achromatic Objective 100x/1.25 PHP(Spring, Oil)	A5C.0211-100					
	(PH-I) Turnplate Phase Contrast Condenser	A5C.0202-1					
	(PH-II) Turnplate Phase Contrast Condenser	A5C.0202-4					
	Flashboard Phase Contrast Condenser	A5C.0202-2					
	Pullboard Phase Contrast Condenser	A5C.0202-3					
	0.4x C-Mount	A55.0202-1					
	1.0x C-Mount	A55.0202-2					
CCD Adapter	0.5x C-Mount With Dividing 0.1mm/Div	A55.0202-3					
	0.5x C-Mount	A55.0202-4					
DC Adapter	Digital SLR Camera Adapter for Canon EF	A55.0204-1					
•	2.5X/4X Change over photograph adapter with 10X viewing eyepiece	A55.0201-1					
	4X Focusing photograph adapter	A55.0201-2					
Photo Adapter	MD Adapter	A55.0201-3					
	PK Adapter	A55.0201-4					

#### A16.0206 Inverted Flourescent Microscope, Phase Contrast





Binocular Head, Side Photo/Video Port On Base, With 100% Light Pass Infinity Plan Achromatic Phase Contrast Objective 10x,20x,40x Epi-Fluorescent Illumination 100W DC Mercury Lamp Fluorescent Filter UV+V, B+G Groups Switchable Fixed Stage Overall Size 227x208mm, With Mechanical Moving Device, Moving Range 77x114mm





Epi-Fluorescent Illumination System Power Supply Unit, 110V or 230V Optional, 100W DC Mercury Lamp, Filter Group, UV+V,

	A16.0206 Inverted Fluo	rescent Microscope,	Phase Contrast				
Head	Binocular, Inclination 45 Degree	ee Interpapillary Distand	ce 53~75mm.				
Evonioco	WF10x/22mm						
Eyepiece	Centering Telescope						
Objective	Infinity Plan Achromatic Objective						
	PLL 10x/0.25, WD 4.3mm, Cover Glass 1.2mm						
	PLL 20x/0.40, WD 8.0mm, Cover Glass 1.2mm						
	PLL 40x/0.60, WD 3.5mm, Cover Glass 1.2mm						
	Infinity Plan Achromatic Phase Contrast Objective						
	PLL10x/0.25 PHP2, WD 4.3mm, Cover Glass 1.2mm						
	PLL20x/0.40 PHP2, WD 8.0mm, Cover Glass 1.2mm.						
	PLL40x/0.60 PHP2, WD 3.5mm, Cover Glass 1.2mm						
	Power Supply Unit, 110V or 23	30V Optional					
	100W DC Mercury Lamp						
Epi-Fluorescent	Fluorescent Filters						
Illumination	Group	Туре	Excitation	Emitted			
System	вісар		Wavelength	Wavelength			
	UV+V	Ultraviolet (UV)	320~380nm	435nm			
		Violet light (V)	380~415nm	475nm			
	B+G	Blue light (B)	450~490nm	515nm			
		Green light (G)	495~555nm	595nm			
Focus	Coaxial Coarse & Fine Focus,	With Tension Adjustab	le And Up Stop, Mir	nimum Division of			
	Fine Focusing 2um						
Nosepiece	Quintuple						
	Fixed Stage Overall Size 227x208mm						
	Glass Round Stage Size Dia.1						
<i></i>	Mechanical Moving Device, M	oving Range //x114mr	n				
Stage	Culture Dish Holder:						
	86x129.5mm, For Circular Culture Dish Dia.7.5mm						
	34x77.5mm, For Circular Culture Dish Dia.68.5mm						
	57x82mm, For Circular Culture Dish Dia.60.0mm						
Transmit	Turnplate Phase Contrast Condenser, Working Distance 55mm						
Illumination		6V30W Halogen, Brightness Adjustable					
Video Port	Frosted Glass, Blue Filter, Green Filter Side Photo/Video Port On Base, With 100% Light Pass						
	Side Photo/Video Port On Bas	se, with 100% Light Pas	55				
	Optional Ac	ccessory		Item No.			
Eyepiece	Recital Eyepiece WF10x/22mm, 0.1mm / Div.			A51.0205-G10B			
Objective	Infinity Plan Achromatic Objective PL5X/0.12 W.D.26.1			A52.0206-4			
Nosepiece	Sextuple (Backward Ball Bear	Sextuple (Backward Ball Bearing Inner Locating)					
	0.4x			A55.0202-01			
CCD Adaptor	0.5x	A55.0202-04					
CCD Adapter Photo Adapter	1.0x	A55.0202-02					
	0.5x With Dividing 0.1mm/Div.			A55.0202-03			
	2.5x/4x Change Over Photogr	A55.0201-01					
	4x Focusing Photograph Attachment			A55.0201-02			
	MD Adapter			A55.0201-03			
	PK Adapter			A55.0201-04			
	Digital Camera Adapter For C	anon EF digital SLR Ca	mera Adapter	A55.0204-02			

# A16.0207 LED Flourescent Microscope

#### OPTO-EDU

Trinocular, Inclination 30°, Rotatable 360° Double Layer Mechanical Stage, Size 210x140mm, Moving Range 75x50mm 5W High Brightness LED Illumination, Brightness Adjustable Transmit 3W High Brightness White LED, Brightness Adjustable Collector For Illumination With LED Lamp (With Filed Diaphragm)

	A16.0207 LED Fluorescent Microscope	-2	-4	Cata. No.
	Trinocular, Inclination 30°, Rotatable 360°, Interpapillary 53~75mm,			
	Left Side Eyepiece Tube Diopter Adjustable ±5°, Switch	•	•	
	E100:P0/E0:P100			
Eyepiece	WF10x/22mm	••	••	
	Dividing eyepiece(field number: µ22mm) 0.10mm/Div	0	0	A51.0205-G10B
Objective	PL4X/0.10 WD19.8mm	•	•	
	PL10X/0.25 WD5.00mm	•	•	
	PLFL40X/0.85 WD:0.42 mm(No magnification spherochromatic	•	•	
	aberration)			
	PL60X/0.80 WD0.46mm	0	0	
	PL100X/1.25 WD0.36mm	•	•	
Nosepiece	Quintuple(Backward ball bearing inner locating)	•	•	
Working Stage	Double Layer Mechanical Stage, Size 210x140mm, Moving Range 75x50mm	•	•	
Focusing	Coaxial Coarse & Ffine Focus System, With Tensional Adjustable And Up Stop, Fine Focusing Minimum Division 2um	•	•	
Epi-Fluorescent Illumination	5W High Brightness LED. Enable Selecting Monochromatic or Bichromatic LED for Light Source, Every Monochromatic LED Wave Band	•	•	
	Blue( 410nm~490nm)	•	•	
	Green (475nm~550nm)	•	•	
	UV (320nm~415nm)		•	
	V (380nm~415nm)		•	
	3W High Brightness White LED, Brightness Adjustable	•	•	
Transmit	Abbe Condenser N.A.=1.25, Rack & Pinion Up/Down Adjustable	•	•	
Illumination	Blue Filter And Ground Glass	•	•	
	Collector For Illumination With LED Lamp (With Filed Diaphragm)	•	•	
	Green Filter	0	0	A56.0209-02
Filter	Yellow Filter	0	0	A56.0209-03
Adapter	0.5x C-Mount	0	0	A55.0202-4
	1.0x C-Mount	0	0	A55.0202-2
	0.5x C-Mount With Dividing 0.1mm/Div	0	0	A55.0202-3
	Adapter For CANON EF Digital SLR Camera	0	0	A55.0204-01

Remark: '●' Means Standard Outfit, '○' Means Optional

# A16.0208 LED Flourescent Microscope, For Phthisis Checking

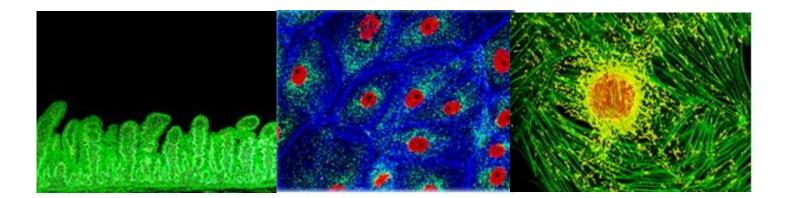




360° Rotatable Head Adaptor For Easy Viewing Height Adjustable



Trinocular Head, 30° Inclined, Interpupillary Distance 55~75mm Infinity Plan Achromatic Fluorescent Objective 10x,20x,40x Available 5W LED High Brightness Epi-fluorescent Illumination With B,G,UV,V Filter Quintuple, Center Adjustable, Backward Ball Bearing Inner Locating 3W LED Transmit Illumination , Adjustable Brightness, With Collector For LED



Specificatio n	A16.0208 LED Fluorescent Microscope	-2	-4	-PH	Cata.No.
Head	Trinocular Head, 30° Inclined, Interpapillary Distance 55~75mm, Left Eyepiece Tube Diopter Adjustable +/-5°, Switch E100:P0/E0:P100, 100% Light Pass To Photo Tube	٠	•	•	
<b>F</b>	Wide Field WF10x/22mm	•	•	•	A51.0202-1022
Eyepiece	Dividing Eyepiece 10x/22mm, 0.10mm/Div	0	0	0	A51.0205-G10B
Nosepiece	Quintuple, Center Adjustable, Backward Ball Bearing Inner Locating	•	•	•	
	Infinity Plan Achromatic Objective PL 4x/0.10	•	•	0	
	Infinity Plan Achromatic Objective PL 10x/0.25	•	•	•	
	Infinity Plan Achromatic Objective PL 40x/0.65	0	0	•	
	Infinity Plan Achromatic Objective PL 60x/0.80	0	0	•	
Objective	Infinity Plan Achromatic Objective PL 100x/1.25 (Spring, Oil)	•	•	•	
	Infinity Plan Achromatic Fluorescent Objective PL FL10x/0.35 (Spring)	0	0	0	
	Infinity Plan Achromatic Fluorescent Objective PL FL20x/0.65 (Spring)	0	0	0	
	Infinity Plan Achromatic Fluorescent Objective PL FL40x/0.85 (Spring)	•	•	0	
Working Stage	Reckless Double Layer Mechanical Stage 180x150mm, Moving Range 75x50mm	•	•	•	
Focus System	Coaxial Coarse & Fine Focus, With Tension Adjustable And Up Stop, Fine Focusing Minimum Division 0.002mm	•	•	•	
Condenser	Abbe N.A.1.25, Rack & Pinion Height Adjustable, With Iris Diaphragm, With Blue Filter	•	•	•	
Light Source	3W LED Transmit Illumination , Adjustable Brightness, With Collector For LED	٠	•	•	
	5W LED High Brightness Epi-fluorescent Illumination, Modular Design	•	•	•	
	B+G Fluorescent Filter Group	•			
Fluorescence	V+UV Fluorescent Filter Group Auramine Filter Set, EX:445/50, DM:490, EM:495LP, For <b>Phthisis</b> <b>Checking</b>		•	•	
	Fluorescent Filter Set For CFP, FITC, CY3, DAP And Etc.	0	0	0	
	External Power Adapter, Input AC 80-250V, Output DC12V, Supply Power To Both Transmit & Fluorescent LED Light	•	•	•	
Power Supply	Rechargeable Battery Pack, Large Capacity 60Wh Support 8 Hours Working Time For Transmit or Fluorescent LED Light Source	0	0	0	
	0.4x	0	0	0	A55.0202-01
	0.5x	0	0	0	A55.0202-04
CCD Adapter	1.0x	0	0	0	A55.0202-02
	0.5x With Dividing 0.1mm/Div	0	0	0	A55.0202-03
	2.5x/4x Change Over Photograph Attachment With 10x Photo Eypiece	0	0	0	A55.0201-01
	4x Focusing Photograph Attachment	0	0	0	A55.0201-02
Photo Adapter	MD Adapter	0	0	0	A55.0201-03
	PK Adapter	0	0	0	A55.0201-04
	Digital Camera Adapter For Canon EF digital SLR Camera Adapter	0	0	0	A55.0204-02

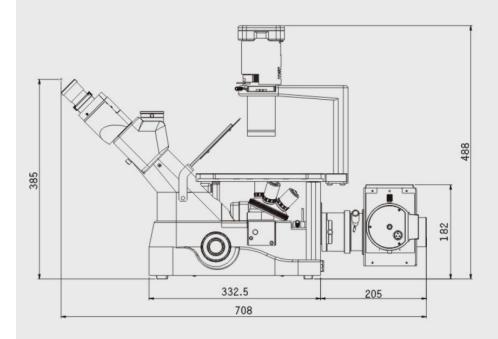
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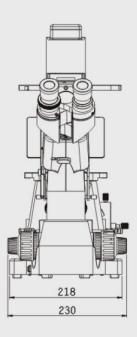
Inverted Fluorescence Microscope, Critical Illumination, Semi-APO, Phase Contrast, B,G





Trinocular Head , Gemel Viewing Head, 45 Degree Inclined, Interpupilary Distance 54-75mm, Spliting Ratio 100:0 or 0:100 LWD Infinity Plan Semi-Apochrmatic Objectives Optional LWD N.A.0.3 Kohler Condenser, With Phase Contrast Slide Slot, Long W.D.72mm Reflect Flurescent Kohler Illumination Mercury 100W Lamp Transmit Critical Illumination, With Iris Aperture, Halogen 6V30W





LPLAN series long working distance plan infinity color corrected objectives, designed tor living-cells culture in laboratory, clear image, good contrast, and also have a good performance under fluorescence observation.

LPLAN PH series long working distance infinity phase contrast objectives. In addition to the realization of the bright field observation, the phase contrast observation function has been developed to make the view showing a sense of relief and a substantial increase in image contrast and resolution.



Series	Magnification	N.A.	W.D.	F.N.	Cover Glass Thickness	Immersion	Spring
	Lplan4x	0.1	22	22	1.2	/	/
	Lplan10x	0.25	7.94	22	1.2	/	/
	Lplan PH10x	0.25	7.94	22	1.2	/	/
Lplan Series(PH)	Lplan20x	0.4	7.66	22	1.2	/	/
	Lplan PH20x	0.4	7.66	22	1.2	/	/
	Lplan40x	0.6	3.71	22	1.2	/	/
	Lplan PH40x	0.6	3.71	22	1.2	/	/



LPLAN-FLUOR series infinity plan semi-apochromatic fluorescence objectives, adopting crystal optics materials, various types of chromatic aberration corrected perfectly, large numerical aperture design, provide you high-resolution, high-contrast microscopic images. LPLAN-FLPH series infinity plan semi- apochromatic phase contrast fluorescence objectives, with achieve bright field, phase contrast and fluorescence observation in one set objectives, eliminate your inconvenience of replacing different kinds of objectives to improve the observation efficiency and comfort.

Series	Magnification	N.A.	W.D.	F.N.	Cover Glass Thickness	Immersion	Spring
	Lplan FL2x	0.06	5.05	25	/	/	/
	Plan Fluor4x	0.13	18.52	25	1.2	/	/
	Plan Fluor10x	0.3	7.11	25	1.2	/	/
Lplan semi-	Plan Fluor20x	0.45	5.91	25	1.2	/	/
apochromatic Series(PH)	Lplan FLPH20x	0.45	5.91	25	1.2	/	/
001100(111)	Plan Fluor40x	0.65	1.61	25	1.2	/	/
	Lplan FLPH40x	0.65	1.61	25	1.2	/	/
	Plan Fluor60x	0.75	1.04	25	1.2	/	/

	A16.0901	A16.0901-CCD			
Optical System	Infinity Color Corrected Optical System				
Head		5 Degree Inclined, Interpupilary Distance 54-			
	75mm, Spliting Ratio 100:0 or 0:100				
Eyepiece	PL10x/22mm, High Eyepoint, Wide Field				
Nosepiece	Revolving Quintuple Nosepiece				
	LWD Infinity Plan Achromatic Objectives	LWD Infinity Plan Fluorescent Objectives			
	LWDPL10X/0.25, W.D.=7.94mm	LWDPLF4X/0.13, W.D.=18.52mm			
	LWDPL20X/0.40, W.D.=7.66mm	LWDPLF10X/0.30, W.D.=7.11mm			
	LWDPL40X/0.60, W.D.=3.71mm	,			
Objective		-Apochrmatic Objectives			
		LWDPLFPH20X/0.45, W.D.=5.91mm			
		LWDPLFPH40X/0.65, W.D.=1.61mm			
	LWD Infinity Plan Pha	ase Contrast Objectives			
	LWDPH20X/0.40, W.D.=7.66mm .	LWDPH10X/0.25, W.D.=7.94mm			
	Fixed Stage Size 250*160mm, Slider Clips	Fixed Stage Size: 250*160mm, Slider Clips			
		Extension Plate and Coaxial Moveable			
	1	Stage, Moving Range120*78mm			
	Glass Plate	Glass Plate			
Working Stage	Metal Plate	Metal Plate with Kidney Slot			
	Petri Dish Holder, Dia.35mm	Petri Dish Holder, Dia.35mm			
	/	Slide Holder, Dia.54mm, 26.5x76.4mm			
	/	Teraseki Holder, Dia.65mm,56x81.5mm			
Focusing	Coaxial Coarse & Fine Focusing System, ( Adjustment Precision 0.002mm,with Tension				
Condenser	LWD N.A.0.3 Kohler Illumination Condense	er, With Phase Contrast Slide Slot, Long			
	Working Distance 72mm. The Whole Set Can Be Rotated Down				
Phase Contrast	Phase Contrast Plug-board for 10x-40x, Ce	enter Adjustable			
	Centering Telescope Dia. 30mm				
<b>F</b> 11	Dia.45mm Green Interference Filter				
Filter	Dia.45mm Color Temperature Change Filter				
	Attenuation Plate, Transmission 25%	tabla			
	With Iris Field Diaphragm, Centering Adjus				
	U-LH100HG Mercury Lamp House, Filament Center and Focal Distance Adjustable, with Mirror, Mirror Center and Focal Distance Adjustable				
Reflected		,			
Fluorescence	U1-RFLT100 Digital Power Control Box, ' Imported OSRAM 100W DC Mercury Bul				
illumination System	Centered Objective For Mecury Bulb	5			
	Band-pass Fluorescent Filter <b>B</b> , <b>G</b>	Band-pass Fluorescent Filter B, G, UV			
	30ND25 Attenuation Plate				
CCD Adapter	0.67x CCD Adapter, for 2/3"CCD Camera				
	or cod radpor, for 2/0 000 damera	1.4M, 2/3"CCD, USB 2.0 Scientific			
CCD Camera	/	Research Class Cold CCD Digital Camera			
Light	Critical Illumination, With Iris Aperture, H Adjustable	alogen 6V30W, Pre-centered, Intensity			
Power	Wide Voltage 90-240V				

## A16.0907-L LED Fluorescence Microscope, Phthisis Checking







Built-in All-in-One Fluorescent Media Unit 5W LED With 1 or 2 Filters Infinity Plan Achromatic 10x/0.25, 20x/0.50, 40x/0.65, 100x/1.25 Kohler N.A.1.25, With Socket for Phase Contrast and Dark Field Slides, Center Fixed B1 LED Fluorescent Intermediate Modular Wavelength 470nm Fluorescent Filter Band B4 Speically Used For Tuberculosis Inspection Optional

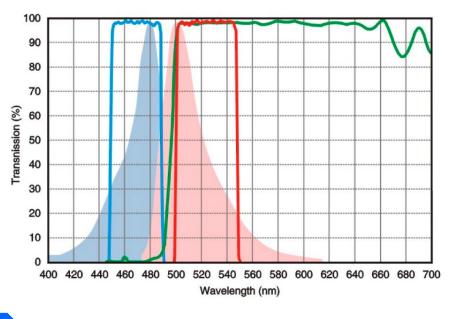


#### **Different LED Fluorescence Modules**

Except for TB test module B4, can choose B1, G1 or UV2 fluorescence module according to different usages. Can also choose several modules and replace them when you need.

#### High-performance Fluorescence Filters

High-performance Fluorescence Filters Have A High Transmittance Of The Spectrum, Good Depth And Steepness Of The Cutoff Line. Without A Cross Color But A High S/N Ratio, Fluorescence Imaging Contrast Was Promoted Dramatically. We Choose Stray Light Elimination Of The Background To The Filter Blocks. Thus, The Background Of The Image Becomes Darker, And The Fluorescence Brighter.



	A16.0907-L LED Fluorescence Microscope	
Optical Syste		
Head	Trinocular, Light Split 8:2, 30° Inclined, 360° Rotatable, Interpupillary Distance 50	0~75mm
Eyepiece	PL10x/20mm, Wide Field, High Eye Point, Diopter Adjustable +/-5 Degree	
Nosepiece	5 Holes Backward Nosepiece	
Objective	Infinity Plan Achromatic 10x/0.25, 20x/0.50, 40x/0.65, 100x/1.25	
Focusing	Low Position Coaxial Coarse & Fine Focusing Knob, with Safty Limitation and Te	ension Adjustment
	Ring. Coarse Range 25mm, Fine Precision 0.002mm	
Working Stag		
Condenser	Kohler N.A.1.25, With Socket for Phase Contrast and Dark Field Slides, Center F	Fixed
Filter	Blue, Dia.45	
Light Source	3W LED, Intensity Adjustable, Center Fixed	
LED Fluores	cent <b>B1</b> LED Fluorescent Intermediate Modular, With Brightness Adjust Knob, BF/FL Center Wavelength 470nm, <b>Fluorescent Filter Band B1</b>	Switch Knob, LED
Power	90~240V Wide Range Power Supply	
rowei		
	A16.0907-L LED Fluorescence Microscope Optional Accessorie	
Head	Binocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance Range 50~75mm	
Eyepiece	PL10x/22mm, Wide Field, High Eye Point, Diopter Adjustable +/-5 Degree	A51.0904-1022T
Nosepiece	Backward Quintuple	A54.0930-BS5
	2x/0.06, WD=5.03mm (Field Complement Is Needed)	A52.0906-2
	4x/0.10, WD=11.9mm	A52.0906-4
Infinity Plan	10x/0.25, WD=12.1mm	A52.0906-10
Achromatic	20x/0.40, WD=1.5mm	A52.0906-20
Objective	40x/0.65, WD=0.36mm	A52.0906-40
	60x/0.85, WD=0.30mm	A52.0906-60
	100x/1.25, WD=0.18mm	A52.0906-100
	<b>G1</b> LED Fluorescent Intermediate Modular, With Brightness Adjust Knob, BF/FL Switch Knob, LED Center Wavelength 560nm, Fluorescent Filter Band G1	A5F.0912-G1
	UV1 LED Fluorescent Intermediate Modular, With Brightness Adjust Knob, BF/FL	
Fluorescent	Switch Knob, LED Center Wavelength 365nm, Fluorescent Filter Band UV1	A5F.0912-UV1
	<b>B4 Tuberculosis</b> Special LED Fluorescent Intermediate Modular, With Brightness	
	Adjust Knob, BF/FL Switch Knob, LED Center Wavelength 455nm, Fluorescent Filter	A5F.0912-B4
	Band B4 Speically Used For Tuberculosis Inspection	
	C-Mount 0.35x, Focus Adjustable, For 1/3 CCD	A55.0925-35
	C-Mount 0.5x, Focus Adjustable, For 1/2 CCD	A55.0925-05
	C-Mount 0.65x, Focus Adjustable, For 2/3 CCD	A55.0925-65
Adapter	C-Mount 1.0x, Focus Adjustable	A55.0925-10
	Photo Adapter with PK or MD mount, with 3.2x Photo Eyepiece	A55.0901-1
	Professional Photo C Mount, With Photo Eyepiece	A55.0910
	A56.0913 Rechargeable Battery Box	
	Specially Designed For A16.0907-BL LED Fluorescence Microscope	
Battery Box	Output DC6V, Large Capacity 5000mA, Rechargeable,	A56.0913
	Size 26*16*11cm	

# A16.0908-L

LED Fluorescence Microscope, B,G,UV, Semi-APO, B4 Tuberculosis Phthisis Analysis Optional





Easy To Change Halogen Bulb

Trinocular Head With PL10x/22mm High Eyepoint Eyepieces Mechanical Stage 175x145mm With Special Fabrication Processing, Anti-corrosive And Anti-friction Infinity Plan Semi-Apochromatic Fluorescence Objectives Four Channels LED Fluorensent Illumination With B,G,UV Filters Fluorescence Filter System B4 For Tuberculosis Phthisis Analysis

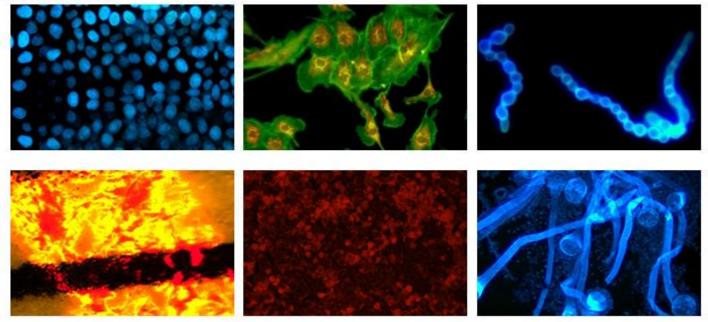
OPTO-EDU







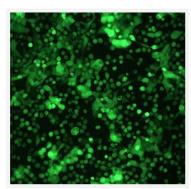
Classic Case

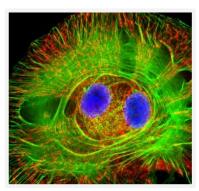


ltem	A16.0908-L LED Fluorescence Microsco	ope, APO Specification			
Optical System	Infinity Color Corrected Optical System				
Head	Compensation Trinocular Head, 30° Inclined, 360° Rotatab Splitting Ratio Switch E100:P0/E0:P100, Diopter +/-5 Adjus				
Eyepiece	High Eye-Point Wide Field Plan Eyepiece PL10x/22mm, Re	eticle Can Be Assembled.			
	4x/0.13	3, WD=15.13mm			
	Intinity Plan Sami-Anochromatic Eluorescence	3, WD=8.53mm			
Objective	Objectives 20X/0.5	5, WD=2.33mm			
	40x/0.4	75 (Spring), WD=0.55mm			
	100x /*	1.3(Spring, Oil), WD=0.21mm			
Nosepiece	5 Holes Revolving Nosepiece, Inward				
Focusing	Coaxial Focus System With Upper Limited And Tension Ad Precision: 0.002mm; Focus Height Adjustable.				
Working Stage	175x145mm Double Layer Mechanical Stage, With Special And Anti-friction; X,Y Moving Hand Wheel Swithable to Rigl 76x50mm, Precision : 0.1mm.				
Condenser	N.A.1.2/0.22 Swing-out Type Achromatic Condenser				
Light Source	6V/30W Halogen, Pre-centered, Intensity Adjustable.				
Filter	Color Temperature Conversion Filter, Dia.45mm				
	Four Channel LED Fluorensent Illumination				
	External Wide Voltage Transformer, Input 100V-240V, Outp	out 6V2A			
	Eye Protecting Board				
Reflected LED Fluorescence	Center Wavelength 470mm LED Fluorensent Light, Fluorescence Filter System B1(or B2)				
System	Center Wavelength 560mm LED Fluorensent Light,				
	Fluorescence Filter System G1(or G2)				
	Center Wavelength 385mm LED Fluorensent Light,				
	Fluorescence Filter System UV2(or UV1)				
	A16.0908-L Optional Accessories	5			
Eyepiece	WF15x/16mm, Diopter Adjustable,	A51.0904-1516T			
Fluorescence	Center Wavelength 455mm LED Fluorensent Light,				
Filter	Fluorescence Filter System B4 For Tuberculosis Phthisis A				
	1x C-Mount, Focus Adjustable	A55.0926-10			
CCD Adapter	0.50x, For 1/2" C-Mount, Focus Adjustable	A55.0926-50			
	0.67x, For 2/3" C-Mount, Focus Adjustable	A55.0926-67			
CCD Camera	1.4M, 2/3"Cold CCD Camera, SONY 2/3"ICX285AQ Senso To -20°, Standard Fluorescent Analysis Software.	r, Refrigeration A59.0921			

## A16.0911 LED Fluorescence Microscope, Phthisis Checking

#### OPTO-EDU







Fluorescent Filter Band B4 Speically Used For Tuberculosis Inspection Built-in All-in-One Fluorescent Media Unit 5W LED With 1 or 2 Filters Infinity Plan Achromatic 10x/0.25, 20x/0.50, 40x/0.65, 100x/1.25 Rackless Double Layer Mechanical Stage 150\*162mm, Moving Range 76\*50mm 3W LED Illumination With LCD Information Screen Adjust Color Temperature 3000K-5600K



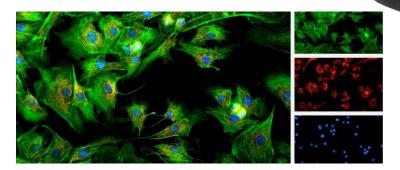
#### Intelligent Illumination System

A16.0911 with code nosepiece is able to automatically remember the light intensity of each objective which you are used to, helps to improve the work efficiency and decrease the visual fatigue. LCD beside the frame shows color temperature and light intensity, as well as the objective magnification you are using, is helpful to make record of experiment condition.

	A16.0911 LED Fluorescent Microscope, B4 For Phthisis Checking			
Optical System	Infinity Chromatic Aberration Correction System			
Head	Trinocular, Light Split 8:2, 30° Inclined, 360° Rotatable, Interpupillary Distance 50~75mm			
Eyepiece	PL10x/20mm, Wide Field, High Eye Point, Diopter Adjustable +/-5 Deg	Iroo		
Nosepiece	5 Holes Backward Nosepiece			
Objective	Infinity Plan Achromatic 10x/0.25, 20x/0.50, 40x/0.65, 100x/1.25			
Norking Stage	Rackless Double Layer Mechanical Stage 150*162mm, Moving Range	76*50mm		
	Precision 0.1mm	, 70 30mm,		
Focusing	Low Position Coaxial Coarse & Fine Focusing Knob, with Safty Limitati Adjustment Ring. Coarse Range 25mm, Fine Precision 0.002mm	ion and Tension		
Condenser	Kohler N.A.1.25, With Socket For Phase Contrast Slide			
ight Source	3W LED, Intensity Adjustable, With LCD Information Screen, Showing Temperature (3000K-5600K), With Brightness Memory Function	Adjustable Color		
LED Fluorescent	<b>B4 Tuberculosis</b> Special LED Fluorescent Intermediate Modular, With Knob, BF/FL Switch Knob, LED Center Wavelength 455nm, Fluorescen <b>Speically Used For Tuberculosis Inspection</b>			
Power	90~240V Wide Range Power Supply			
	A16.0911 LED Fluorescence Microscope Optional Accessories			
Head	Binocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance	A53.0907-B30R		
	Range 50~75mm			
	PL10x/22mm, Wide Field, High Eye Point, Diopter Adjustable +/-5	A51.0904-N1022T		
Eyepiece	Degree			
	2x/0.06, WD=5.03mm (Field Complement Is Needed)	A52.0906-2		
nfinity Plan	4x/0.10, WD=11.9mm	A52.0906-4		
	10x/0.25, WD=12.1mm	A52.0906-10		
Achromatic	20x/0.40, WD=1.5mm	A52.0906-20		
Dbjective	40x/0.65, WD=0.36mm	A52.0906-40		
5.5,000.10	60x/0.85, WD=0.30mm	A52.0906-60		
	100x/1.25, WD=0.18mm	A52.0906-100		
	4x/0.13 W.D.=16.43mm	A5F.0931-4		
nfinity Plan	10x/0.30 W.D=8.13mm	A5F.0931-10		
Semi-Apochromatic	20x/0.50 W.D=2.03mm	A5F.0931-20		
Fluorescence				
Objectives	40x/0.75 W.D=0.74mm	A5F.0931-40		
-	100x/1.28 W.D=0.18mm	A5F.0931-100		
	<b>B1</b> LED Fluorescent Intermediate Modular, With Brightness Adjust Knob, BF/FL Switch Knob, LED Center Wavelength 470nm, <b>Fluorescent Filter Band B1</b>	A5F.0912-G1		
	G1 LED Fluorescent Intermediate Modular, With Brightness Adjust			
Fluorescent	Knob, BF/FL Switch Knob, LED Center Wavelength 560nm, Fluorescent Filter Band G1	A5F.0912-G1		
	<b>UV1</b> LED Fluorescent Intermediate Modular, With Brightness Adjust Knob, BF/FL Switch Knob, LED Center Wavelength 365nm, Fluorescent Filter Band UV1	A5F.0912-UV1		
	C-Mount 0.35x, Focus Adjustable, For 1/3 CCD	A55.0925-35		
	C-Mount 0.5x, Focus Adjustable, For 1/2 CCD	A55.0925-05		
	C-Mount 0.65x, Focus Adjustable, For 2/3 CCD	A55.0925-65		
Adapter	C-Mount 1.0x, Focus Adjustable	A55.0925-05		
	Photo Adapter with PK or MD mount, with 3.2x Photo Eyepiece	A55.0901-1		
	Professional Photo C Mount, With Photo Eyepiece	A55.0910		
Battery Box	A56.0913 Rechargeable Battery Box Specially Designed For A16.0907-BL LED Fluorescence Microscope	A56.0913		
	Output DC6V, Large Capacity 5000mA, Rechargeable, Size 26*16*11cm			

## A16.0912-L LED Inverted Fluorescence Microscope, Semi-APO, BF/PH/FL





Professional Lab Inverted Microscope Combined BF+PH+FL Semi-APO Optical System LWD Infinity Plan Fluorescent 4x10x, LWD Infinity Plan Semi-APO 20x40x Working Stage 215x250mm, Attachable Stage Moving Range 120x78mm LWD Condenser N.A.0.3, W.D.78mm, Phase Contrast Slide + Centering Telescope Reflect Fluroescent LED 3 Bands, Fluroescent Filter B1, G1





**Three-Bands Filter Switching Mechanism** Automatically Switch Filters & LED Light Together And Show Filter Selected On Front Panel. Fluorescent Filters B1 470nm, G1 560nm, UV1 385nm

	A16.0912-L LED Semi-APO Fluorescence Microscope		Cata. No.				
Observation Method	Bright Field, Fluorescent, Phase Contrast						
Head	Trinocular Head 45° Inclined, 360° Rotatable, Interpupillary Distance 50-75mm, Light Splitting Ratio 100:0/0:100 Switchable						
	High Point Eyepiece, Wide Feld Plan PL10x/22mm, Diopter Adjustable	•	A51.0904-1022				
Eyepiece	High Point Eyepiece, Wide Feld Plan PL10x/22mm, Diopter Adjustable, With Reticle	0	A51.0905-1022F				
	High Point Eyepiece, Wide Feld Plan PL15x/16mm, Diopter Adjustable	0	A51.0903-1516				
Vosepiece	Quintuple Nosepiece						
	LWD Infinity Plan Fluorescent Objective LWDPL4x/0.13, W.D.18.52mm	•	A5F.0932-4				
	LWD Infinity Plan Fluorescent Objective LWDPL10x/0.3, W.D.7.11mm	•	A5F.0932-10				
	LWD Infinity Plan Fluorescent Objective LWDPL20x/0.45, W.D.5.91mm	0	A5F.0932-20				
	LWD Infinity Plan Fluorescent Objective LWDPL40x/0.65, W.D.1.61mm	0	A5F.0932-40				
Objective	LWD Infinity Plan Fluorescent Objective LWDPL60X/0.75, W.D.1.04mm	0	A5F.0932-60				
	LWD Infinity Plan Semi-Apochromatic Phase Contrast Fluorescent Objective LWDPL20x/0.45 W.D.5.91mm	•	A5F.0933-20				
	LWD Infinity Plan Semi-Apochromatic Phase Contrast Fluorescent Objective LWDPL40x/0.65 W.D.1.61mm	•	A5F.0933-40				
ocusing	Coaxial Coarse & Fine Focusing System, With Tension Adjustment Ring, C 9mm, Coke-Oriented 6.5mm, 2.5mm Down, Fine Focusing Precision 0.002		Focusing Range				
	Fixed Working Stage Size 215x250mm						
	Glass Plate						
	Metal Plate (Kidney Hole)						
Vorking	Mechanical Mobile Ruler, Moving Range 120(X)x78(Y)mm						
Stage	Stage Extension Plate						
	Petri Dish Holder Dia.35mm						
	Slides Holder Dia.54mm, And 26.5x76.5mm						
Condenser	Teraseki Holder Dia.65mm, And 56x81.5mm						
	LWD Condenser N.A.0.3, Working Distance 72mm, Removeable						
Phase Contrast	Centre-Adjustable Phase Contrast Slide Plate, For N.A.0.3, With 2 Handles	5					
Johnast	Centering Telescop Dia.30mm LED Fluorescent Lamp House, 4 Bands LED Switching By Servo Motor, Br Fluorescent Filter 385nm, 470nm, And 560nm.	uilt-in	LEDs For				
Reflect Fluorescent	Three-Bands Filter Switching Mechanism, Automatically Switch Filters & Li Show Filter Selected On Front Panel.	ED Lię	ght Together And				
ight Source	Fluorescent Filter B1 470nm	•	A5F.0924-B1				
	Fluorescent Filter G1 560nm	•	A5F.0924-G1				
	Fluorescent Filter UV1 385nm	0	A5F.0924-UV1				
	5W LED Illumination, Intensity Adjustable, With Intelligent ECO System An	d Indi					
ransmit	Panel	a mai					
	LBD Color Temperature Change Filter Dia.45mm						
	IF550 Green Interference Filter Dia.45mm						
/lain Body	Reflect and Transmit Frame Body						
Power Supply	External Wide Voltage Transformer, Input 100-240V, Output 12V5A						
	C-Mount 0.35x	0	A55.0934-35				
	C-Mount 0.65x	0	A55.0934-65				
Adapter	C-Mount 0.5x	0	A55.0934-05				
	C-Mount 1.0x	0	A55.0934-10				
Others	Spanner		100.0004-10				
Packing	Foam+Carton, 1pc/Carton, 74*67*57cm, G.W.24Kgs						

# A16.1023 Inverted Flourescence Microscope



19400

Inverted Infinity Optical Fluorescent Microscope, B,G,U,UV,B1 Available Infinity Plan LWD Achromatic, Phase Contrast, Fluorescent Objective Available ELWD Condenser N.A.0.3, Long Working Distance 72mm, Up to 150mm Without Condenser Phase Contrast Slide, 2 Holes For 10x-20x Objective Reflected Flourescent System 100W HBO Mercury Lamp



Items	A16.1023 Inverted Fluore	scence Microscope	
Optical System	Infinity Optical System		
Head	Seidentopf Trinocular Head, 30° Inclined, Interpupi	llary 48~75mm, Diopter Adjustable	
Eyepiece	Extra Wide Field Eyepiece EW10x/22mm, High Eye	epoint	
Nosepiece	Quintuple Nosepiece		
	Infinity Plan LWD	4x/0.1, W.D.18mm	
Objective	Achromatic Objective	40x/0.6, W.D.2.6mm,Cover Glass 1.2mm	
Objective	Infinity Plan Phase Contrast Achromatic Objective	PH10x/0.25, W.D.10mm	
	ininity rian riase contrast Actionate objective	PH20x/0.40, W.D.5.1mm	
Focusing	Coaxial Coarse & Fine Adjustment, Coarse Stroke 37.7mm Per Rotation, Fine Stroke 0.2mm Per Rotation		
Working Stage	Plain Stage 160*250mm Glass Insert Plate Auxiliary Stage 70*180mm		
Condenser	ELWD Condenser N.A.0.3, Long Working Distance 72mm, Up to 150mm Without Condenser		
Phase Contrast	Phase Contrast Slide, 2 Holes For 10x-20x Object	ive	
Fluorescent System	Reflected Flourescent System Power Supplier Box, 220V/110V Interchangeable, Digital Display 100W HBO Ultra Hi-Voltage Spherical Mercury Lamp Barrier To Resist Ultraviolet Light Fluorescent Free Oil Blue Excitation Filter, BP460~490, DM500, BA520 Green Excitation Filter, BP480~550, DM570, BA590		
Filter	Green, Blue, Ground Glass, Dia.45mm		
Illumination	External Kohler Illumination, Halogen Lamp 6V30W, Brightness Adjustable		

### Accessories

	A16.1023 Inverted Fluorescence Micr	oscope Optional Acces	sories
Ohiaatiiya		10x/0.25,W.D.10mm	A5M.1031-10
Objective	Infinity Plan LWD Achromatic Objective	20x/0.4,W.D.5.1mm	A5M.1031-20
Dhase Contract	Infinity Plan Phase Contrast Achromatic Objective	PH40x/0.6,W.D.0.35mm	A5C.1023-40
Phase Contrast	Centering Telescope, Tube Dia.30mm		A5C.1011-30
	Phase Contrast Slide, 3 Holes For 10x-20x-40	Dx Objective	A5C.1013-3
		4x/0.13/0.17, W.D.16.3	A5F.1031-4
	Infinity Dian Elypropost Objective	10x/0.3/0.17, W.D.12.4	A5F.1031-10
	Infinity Plan Fluorescent Objective	20x/0.5/0.17,W.D.1.5	A5F.1031-20
		40x/0.75/0.17,W.D.0.35	A5F.1031-40
Fluorescent	Blue Excitation (B1) Filter, BP460~495, DM50	A5F.1010-B1	
System	Ultraviolet Excitation Filter, BP330~385, DM4	A5F.1010-U	
	Violet Excitation Filter, BP400~410, DM455, E	A5F.1010-V	
	Netural Filter ND6	A5F.1011-6	
	Netural Filter ND25	A5F.1011-25	
	Epi-Fluorescent Centering Slide	A5F.1012	
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Range 120*78mm		A54.1006-XY
	Terasaki Holder	A54.1006-T	
Wokring Stage	Petri Dish Holder Dia.38mm	A54.1006-38	
	Slide Glass Holder Dia.54mm	A54.1006-54	
	Slide Glass Holder Dia.90mm	A54.1006-90	
Adaptar	Photo Adapter		A55.1001
Adapter	C-Mount 1.0x	A55.1002-10	

# A16.2701 Fluorescent Microscope



Binocular, OMEGA B/G , infinity plan objectives

Specification	A16.2701 Fluorescent Microscope	B2	B4	T2	T4
Optical System	UCIS infinity independent achromatic optical system				
Head	Seidentopf binocular head 30° inclined, rotatable 360°, interpupillary distance 52-75mm, Diopter Adjustable	•	•		
пеац	Seidentopf trinocular head 30° inclined, rotatable 360°, interpupillary distance 52-75mm, Diopter Adjustable			•	•
Magnification	40x - 1000x	·	·	·	·
Eyepiece	WF10x/20mm, high eyepoint up to 21mm,				
Objective	Infinity plan achromatic objectives 4x, 10x, 40x(s) and 100x	(s/oil)			
Focus System	Low positioned, coaxial coarse & fine focusing system with coarse 14mm/rot, fine 0.1mm/rot, minimum reading 1µm on 20mm		•		
Nosepiece	Quadruple, reversed type with positive click stops				
Illumination	Kohler Illumination, with field diaphragm				
Condenser	Abbe condenser N.A. 1.25 with iris diaphragm and phase co	ontrast	socket		
Stage	Right hand controls, brightness adjustable, low position, me movement range 76mm x 54mm	chanica	al stage,	156mm x	( 138mm,
Flourescent Attachment	Epi-reflected fluorescence illumination system: 100W mercu supply unit	ury lamp	o house	and 100\	W power
Eveltetien Eilten	B,G, OMEGA Brand				
Excitation Filter	B,G,UV,V , OMEGA Brand		•		
	250V/5Α Φ5X20 fuse				
Light Source	6V20W Halogen lamp				
	250x/3.15A Φ5x20 fuse				
	Blue Ф38				
Other	Immersion Oil				
	Dust cover				
	Power cord				

	Optional Accessories	Item No.
Head	Binocular Head,30° Inclined, 360° Rotatable, Interpupillary Distance 48-75m, ±5 Diopter Adjustment	A53.2702-2A
пеац	Trinocular Head,30° Inclined, 360° Rotatable, Interpupillary Distance 48-75mm, ±5 Diopter Adjustment	A53.2704-2A
	Plan WF10x/22mm, high eyepoint up to 21mm	A51.2701-10C
Eyepiece	Plan WF16x/13mm,high eyepoint	A51.2701-1613
	Plan WF10x/20mm, reticule eyepiece	A51.2703-10A
	Infinity plan achromatic objectives 4x	A52.2706-04C
Objective	Infinity plan achromatic objectives 20x(s)	A52.2706-20C
	Infinity plan achromatic objectives 60x(s)	A52.2706-60C
Nosepiece	Quadruple, reversed type with positive click stops	A54.2704-B
Condenser	Swing out condenser	A56.2701-30A
Stage	Upgrade to mechanical stage 185x177mm platform, moving range 75x50mm, low positioned x-y coaxial control knob (right or left hand),two slides holder	A54.2701-2C
	6V/30W Halogen Illumination	A56.2703-30
Illumination	6V30W Osram Halogen Bulb	A56.2703-30C
	100W Osram Mercury Lamp	A5F.2716-I
	5W LED lamp house	
	Power supply unit for 5W LED lamp house	
LED	Excitation Filter UV, OMEGA Brand	A5F.2710-IUV
Flourescent Attachment	Excitation Filter V, OMEGA Brand	A5F.2710-IV
	Excitation Filter B, OMEGA Brand	A5F.2710-IB
	Excitation Filter G, OMEGA Brand	A5F.2710-IG
	Green	A56.2706-G
Filter Ф38	Yellow	A56.2706-Y
	Frosted Glass	A56.2706-F
A dente -	1.0x C-Mount	A55.2701-10
Adapter	0.25x C-Mount	A55.2701-25

# A16.2702 Inverted Fluorescent Microscope

#### OPTO-EDU



Quintuple Nosepiece, With Positive Click Stops

Epi Fluorescent 100W Fluorescent Light & OMEGA Filter B/G/U/UV Binocular Head With Side Phote Port For Standard C-Mount Digital Camera LWD Infinity Plan 10x20x40x & LWD Infinity Plan Phase Contrast 20x Large Size Working Stage 240x260mm Moving Range 135x85mm Right Hand Univeral Joint Moving Knob ForX/Y Movement Control

OPTO-EDU

Specification	A16.2702 Inverted Fluorescent Microscope	<b>2i</b>	4i		
Optical System	UCIS Infinity Independent Achromatic Optical System				
Frame	One-piece Construction from Arm to Base				
Head	Seidentopf Binocular Head, 45° Inclined, Interpupillary Distance 52-75r ±5 Diopter Adjustment	nm, Left	Tube		
Eyepiece	WF10x/20mm, Plan, High Eyepoint up to 21mm,				
Centering Attachment	Centering Telescope 10x For Phase Contrast				
Objective	Infinity LWD Plan Achromatic Objective 10x/0.25 W.D.9.67				
	Infinity LWD Plan Achromatic Objective 20x/0.40 W.D.7.97				
	Infinity LWD Plan Achromatic Objective 40x/0.60 W.D.3.76				
	Infinity LWD Plan Phase-Contrast Objective (Positive) 20x/0.40 W.D.7.97				

Focus System	Low Positioned, Coaxial Coarse & Fine Focusing System with Adjustable Tension Control and Upper Limit Stop, Minimum Reading 1µm, Moving Range 12mm			
Nosepiece	Quintuple, Reversed Type with Positive Click Stops			
Condenser	Abbe CondenserN.A. 0.30 with Iris Diaphragm, with Phase Contrast Slider & Filter (φ34) Blue,Green & Yellow, Long Work Distance 72mm			
	Right Hand Controls, Low Position, Mechanical Stage, Size 240x260mm, Moving Range 135x85mm. Right Hand Universal Joint Moving Knob For X/Y Movement Control			
Stage	Drop Specimen Holder(φ118)			
	Slide Specimen Holder (76x26, φ54)			
	6V30W Halogen Lamp House			
Light Source	Electrical Part for 6V30W Halogen Imap			
	6V30W Halogen Bulb (Osram)			
	250V/3.15A Φ5X20 Fuse			
	Power Supply 110-240V,50/60Hz			

Specification	A16.2702 Inverted Fluorescent Microscope	<b>2i</b>	4i		
	100W DC Mercury Lamp House, Multi-Functional Semi-Reflector				
	Power Supply Unit for 100W DC Mercury Lamp				
	5 Holes Turret Fluorscent Filter Disc, Can Hold Max 4 Bands Fi Field View	lters + 1 Hol	e For Bright		
	100W Mercury Bulb (Osram)				
	250V/5A Φ5X20 Fuse				
	Excitation Filter B/G, CHROMA Brand				
	Blue Excitation Filter, BP460~490, DM500, BA520	ο			
Epi-Fluorescent Illumination	<b>G</b> reen Excitation Filter, BP510~550, DM570, BA590				
	Excitation Filter B/G/U/V, CHROMA Brand				
	Blue Excitation Filter, BP460~490, DM500, BA520				
	<b>G</b> reen Excitation Filter, BP510~550, DM570, BA590		ο		
	UltraViolet Excitation Filter, BP330~385, DM400, BA420				
	Violet Excitation Filter, BP400~410, DM455, BA455				
Phase Contrast	Phase Contrast Slider for 10x,20x,40x				
Adapter	Camera Port On Right Side Of Base With 0.5x C-Mount				
Other	Allen Screw Driver 2mm				
	Allen Screw Driver 2.5mm				
	Dust Cover				
	Power Cord				

Optional A	ccessories	Item No.
	Seidentopf Binocular	
Head	Head, 45 <sup>°</sup> Inclined, Interpupillary Distance 48- 75mm, Diopter Adjustable	A53.2702-1A
Eyepiece	WF10x/22mm Plan Eyepiece, High Eyepoint	A51.2701-10C
	WF10x/20mm, Plan, High Eyepoint Up to 21mm, Diopter Adjustable	A51.2701-10A1
	WF16x/13mm, Plan	A51.2701-1613
	Infinity Plan Achromatic Objective 4x	A52.2706-04C
	Infinity LWD Plan Achromatic Objective 60x	A52.2706-60LB
	Infinity LWD Plan Phase- Contrast Objective 10x (Positive)	A5C.2735-10PB
Objective	Infinity LWD Plan Phase- Contrast Objective 40x (Positive)	A5C.2735-40PB
	Infinity LWD Plan Phase- Contrast Objective 10x (Negative)	A5C.2735-10NB
	Infinity LWD Plan Phase- Contrast Objective 20x (Negative)	A5C.2735-20NB
	Infinity LWD Plan Phase- Contrast Objective 40x (Negative)	A5C.2735-40NB
Stage	Mechanical Stage, Size 350x208mm, Moving Range 50x50mm	A54.2706-5
	0.25x C-Mount	A55.2701-25A
Adapter	Digital Camera Adapter (Need to Know Camera Brand)	A55.2702-2
Bulb	6V30W Halogen Bulb	A56.2703-30C
Specimen Holder	125x85mm	A54.2706-3
	100W DC Mercury Lamp House	A5F.2712
	Power Supply Unit for 100W DC Mercury Lamp	A5F.2713
	Epi-fluorescent Illumination,Multi-functional Semi-reflector	A5F.2714
Eni Eluoroscont Illumination	Excitation Filter B, CHROMA Brand	A5F.2710-IB
Epi-Fluorescent Illumination	Excitation Filter G, CHROMA Brand	A5F.2710-IG
	Excitation Filter U, CHROMA Brand	A5F.2710-IU
	Excitation Filter V, CHROMA Brand	A5F.2710-IV
	100W Mercury Bulb	A5F.2716-H
	100W Mercury Bulb (Osram)	A5F.2716-I
	Empty Filter Cube	A5F.2727

# A17.0940 Multi-Viewing Microscope, 10 People





9 pcs Binocular + 1 pc Trinocular Head For Multi-Viewing For 10 People PL10x22mm Eyepiece Infinity Plan Objective 4x10x20x40x100x LED Pointer In View Field For Teaching, Brightness Adjustable ouble Layer Mechanical Stage 175x145mm Moving 76x50mm 10W LED, Pre-Centered, Intensity Adjustable.

	A17.0940 Multi-Viewing Microscope, 10 Position
	9 Pcs Compensation Binocular Head, 30° Inclined, 360° Rotatable, Interpupillary Distance 54-75mm.
Head	1 Pc Compensation Trinocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance 54-75mm.
Eyepiece	High Eye-point Wide Field Plan Eyepiece PL10x22mm, Reticle Can Be Assembled.
	Infinity Plan Achromatic Objectives
	4x, W.D.=7.18mm
Objective	10x,W.D.=4.70mm
Objective	20x,W.D.=1.75mm
	40x(Spring),W.D.=0.72mm
	100x(Spring, Oil),W.D.=0.15mm
Nosepiece	5 Holes Revolving Nosepiece, Backward
Stage	Double Layer Mechanical Stage 175x145mm, With Special Fabrication Processing, Anti-corrosive And Anti-friction; X/Y Moving Hand Wheel In Right Or Left Hand; Moving Range 76x50mm, Precision 0.1mm
Condenser	N.A.1.2/0.22 Swing-out Type Achromatic Condenser
Focusing	Coaxial Focus System With Upper Limited And Tension Adjustment;
Light Source	10W LED, Pre-Centered, Intensity Adjustable.
Filter	Blue
Pointer	LED Pointer, Brightness Adjustable

# A17.1112 Multi-Viewing Microscope, 10 People





1pc Trinocular Head, 9pcs Binocular Heads, For 10 Peoples Infinity Optical System WF10x/22m Infinity Plan 4x,10x,40x,100x Objectives Mechanical Working Stage 180x160mm/ Moving Range 80x50mm Kohler Illumination, 12V100W Halogen Lamp LED Cursor For Mult-View Teaching Brightness Adjustable

	A17.1112 Multi-Viewing Microscope, 10 People Deca Heads
Head	Seidentopf Trinocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance 50-75mm, 1 pc
	Seidentopf Binocular Head 30° Inclined, 360° Rotatable, Interpupillary Distance 50-75mm, 9 pcs
Eyepiece	High Eye-point Wide Field Plan Eyepiece WF10x/20mm
Objective	Infinity High Contrast Plan Achromatic Objectives 4x,10x, 40x(S), 100x(O,S)
Nosepiece	Backward Quarduple Nosepiece
Stage	Double Layer Mechanical Stage 180*160mm, Ceramic Coated, Moving Range 80x50mm, Double Slide Holder
Condenser	N.A.1.2/0.22 Swing-out Type Achromatic Condenser
Focusing	Coaxial Coarse & Fine Focus System, With Upper Limit And Tension Adjustment; Fine Precision 0.002mm
Light Source	Kohler Illumination, 12V100W Halogen Lamp, With Field Diaphragm, Iris Dlaphragm, Contrinue Brightness Adjustable
Filter	Blue
Pointer	LED Cursor Pointer, Brightness Adjustable

# A18.1816-A

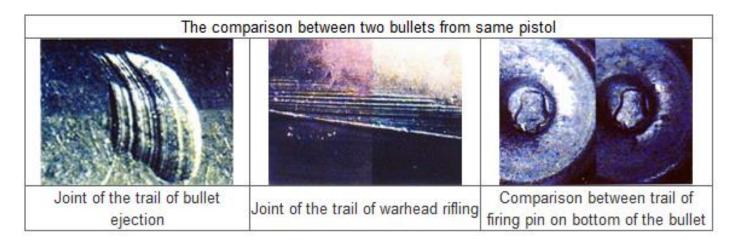
**Questioned Document Examination System** 





Magnification 1~30x Motorized Zoom Control 1/3" CCD 800 Lines Digital Camera Transmit & Reflect All Kinds Light Source Exciting Filter 9 Bands, Receiving Filter 9 Bands Incl. Software+Laptop, Wooden Packing

#### A18.1816-A Used With A30.1801 Forensic Image Analysis Software Crime Image



#### A18.1816 Questioned Document Examination Analyzer

A18.1816 Questioned Document Examination Analyzer is an ideal tool to inspect, observe and compare many kinds of objects, evidences including:

--All kind of questioned documents: Used of different kinds of writing instruments, by adding, altering, conceal, forgery and other methods of fade contract, IOUs, real estate contracts, invoices, bills of exchange, checks, bills of lading, passports and so on.

--Various fluorescent encryption securities: checks, stocks, credit cards, stamps and special trademarks.

--Identify cards, resident identify cards, temporary residence permits, etc.

--Currency: US Dollars, H.K. Dollars, RMB, etc.

	Main Light Source : 1x 24V/150W Halogen Lamp, With Cooling Fan, Focusing Lens, And
	Heat-Resistance Glass Cover
	UVC: Short-Wave Ultraviolet Light 254nm, 1x10W
	UVA: Long-Wave Ultraviolet Light 365nm, 1x10W
Light Source System	Upper Visible Side Light: 1x50W, With Lamp Holder Which Can Adjust Position And Angle
	Freely, Used To Check Indentation
	Transmitted White Light 2x20W
	Excitation Wavelength:
	000nm,365nm,450nm,465nm,515nm,530nm,565nm,580nm,900nm
	Receiving Filter: 000nm,415nm,450nm,565nm,700nm,720nm,740nm,800nm,900nm
	High Sensitive, High Resolution 1/3" CCD Color Digital Camera, 650 Lines, Sensitivity
Video Camera System	0.001 Lux, Especially Sensitive To Near-Infrared And Visible Spectral Bands Light Source.
,	Electrical Zoom Lens, Aperture 1.2, Zoom Ranges 1~30x
	Fluorescent Light Source With Multi Excitation And Receiving Filter Combinations, Can
	Exam And Compare The Different Inks Used On Documents
	Reflect Light And Receiving Filter Combination, Can Exam The Reflection And Absorption
	Of Different Wavelengths On Different Inks.
	Reflect Light And Receiving Filter Combination, Can Exam The Transmission Of Different
Function	Wavelength Infrared Light On The Different Inks.
	Transmit Light And Receiving Filter Combination, Can Exam The Transmission Of
	Different Wavelength Infrared Light On The Different Inks
	Reflect Side Light Can Exam The Scratch, Cut Marks On documents.
	Transmit Light Can Illuminate From The Bottom Side To Exam The Scratch, Cut Marks
	On Documents.

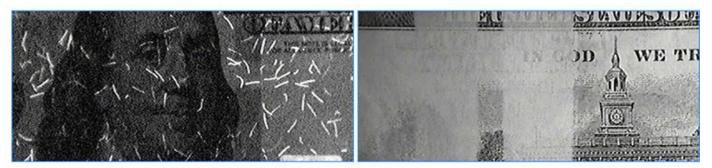
Samples to choose light source according to different objects.						
Objects	Light Source	Excitation	Receiving	Exam		
Distinguish Altered Or Added Text By Different Kinds Of Ink		485-550 nm	700-900 nm	Alter		
Natural Subside Text On Thermal Paper, Carbon Paper	Excitation	480-550 nm	700-740 nm	Subside		
Phosphor Fingerprint	Excitation	480-550 nm	700-740 nm	Fluorescent		
Multilayer Indentation	Reflected Light _ Side	000nm	900nm	Indentation		
Text On The Black Cloth	Reflected Light _ Side	000nm	900nm	Covered Text		
Text In The Kraftpaper Envelopes	Transmitted Light _ UV	000nm	900nm	Transmit		
Correction Fluid	Transmitted Light _ UV	000nm	900nm	Alter		
Security Trademark	UVC	000nm	000nm	Real/False		
Currency Fluorescent	UVA	000nm	000nm	Fluorescent		

# A18.1818

**Questioned Document Examination System** 



Magnification 1~30x Motorized Zoom Control 1/3" CCD 800 Lines Digital Camera Transmit & Reflect All Kinds Light Source Exciting Filter 7 Bands, Receiving Filter 7 Bands Incl. Software+Laptop, Wooden Packing



Fluorescent Anti-counterfeiting Mark Excited Filter 580nm Receiving Filter 740nm, Magnification 6x Building Anti-counterfeiting Mark Receiving Filter 700nm, Magnification 2x

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Items	A18.1818 Document Examination System
	Strong Light 1x24V/150W Halogen
	Ultra Violet 365nm, 1x10W Check Fluorsent View
	Side Light 1x50w, Check Infra Reflect
Light Source	Transmit Light 2x20W White, Check Water Mark
	Excited Filter: High Transmittance Narrow Half Width Band-pass Filter 000nm, 365nm, 440nm, 530nm, 585nm, 585nm
	Receiving Filter: 000nm, 450nm, 565nm, 700nm, 720nm, 800nm, 900nm
Image Reception	1~30x Motorized Zoom, 1/3" CCD 800 Lines Digital Camera
Software	Incl. Software+Laptop
Packing	Wooden Packing

# A18.1825

Comparison Microscope, Step Zoom, 3.2~192x





Eyepiece Mag./Viewfield		Eyepiece10X	Eyepiece20X	Photo Adapter	Video Adapter	Working Distance
Objective	Bridge Body					
0.8X		9.6X/φ28	19.2X/φ17			
1.25X	-	15X/φ18	19.2X/φ17			
2X	1.2X	24X/φ11	48X/φ7	2.5X	0.5X	101mm
3.2X	-	36X/φ7	77X/φ4.5			
4.8X		58X/φ4.2	115X/φ2.3	1		
Fotal Magnification with 0.8x objective, auxiliary lens 0.4x, WF10x eyepiece, magnification = 0.8*0.4*10=3.2x						

A18.182	5 Digital Forensic Comparison Microscope Specification
Magnification	3.2x~192x
Head	Binocular Head, 30° Incline, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eveniego	WF10x/22mm, High Eyepoint
Eyepiece	WF20x/12mm, High Eyepoint
Objective	5 Step Zoom Plan Objective 0.8x, 1.25x, 2x, 3.2x, 4.8x
Objective	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver
	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
Working Stage	Round Tiltable Working Stage Dia. 90mm, 0-45 $^\circ$ Inclined, 360 $^\circ$ Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
Linkt On man	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
Light Source	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Ultraviolet Light Lens, 2pcs
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
A dente a	0.5x CCD Adapter For Digital Camera,, 1pc
Adapter	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)
Power	80~240V Wide Range Voltage
Bullet Holder	Standard Bullet Holder 2 Sets
Dimension	Instrument Size 37*30*63cm

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813		
LCD Pad Digital Camera	9.7" LCD Pad Digital Camera, Android System, See A18.1825-LCD	A59.3520		

# A18.1825-LCD LCD Comparison Microscope, Step Zoom, 3.2~192x





10.1" LCD Digital Camera + Step Zoom Lens Magnification 3.2x~192x Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Square & Round Working Stage Joint Moving Up/Down

#### **Product Specification**

Mag./Viewfield	Eyepiece	Eyepiece10X	Eyepiece20X	Photo Adapter	Video Adapter	Working Distance
Objective	Bridge Body					
0.8X		9.6X/φ28	19.2X/φ17			
1.25X	-	15X/φ18	19.2X/φ17			
2X	1.2X	24X/φ11	48X/φ7	2.5X	0.5X	101mm
3.2X		36X/φ7	77X/φ4.5	•		
4.8X		58X/φ4.2	115X/φ2.3	•		

OPTO-EDI

A18.1825-I	LCD Digital Forensic Comparison Microscope Specification
	9.7" LCD Pad Digital Camera, Android System, 5.0 M Pixels, Full Resolution 2592*1936
LCD Pad Digital Camera	1* Mini USB2.0, 1*HDMI, 1* Micro-SD Card Slot (Up to 32GB), 1* 3.5mm
	Standard Stereo Earphone Slot,1* SIM Card Slot
	Details see A59.3520
Magnification	3.8x~230x
Head	Binocular Head, 30° Incline, Interpupilary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
Еуеріесе	WF20x/12mm, High Eyepoint
Objective	5 Step Zoom Plan Objective 0.8x, 1.25x, 2x, 3.2x, 4.8x
	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver
	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
Working Stage	Round Tiltable Working Stage Dia. 90mm, 0-45 $^\circ$ Inclined, 360 $^\circ$ Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
Light Source	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Ultraviolet Light Lens, 2pcs
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
Adoptor	0.5x CCD Adapter For Digital Camera
Adapter	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)
Power	80~240V Wide Range Voltage
Bullet Holder	Standard Bullet Holder 2 Sets
Dimension	Instrument Size 37*30*63cm

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Software	Professional Forensic Image Analysis Software	A30.1821		
Bullet Holder	Motorized Bullet Holder 1 Set, Used With Software	A54.1813		

# <image>

Total Optical Magnification Up To 2x~240x With 6 Holes Nosepiece Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Square & Round Working Stage Joint Moving Up/Down



Separation Line Adjust System in Black, with special designed adjust driver

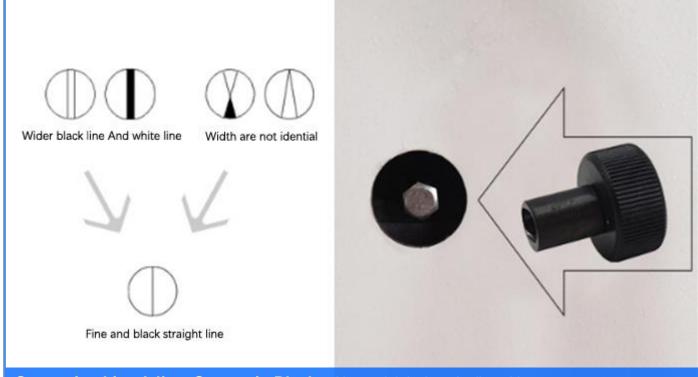
Eyepiece Mag./Viewfield Objective	10X	20X	Photo Adapter	Video Adapter	Working Distance
1X	10X/φ21	20X/φ12	1.8X		
1.5X	15X/φ15	30X/φ8	2.7X		
2X	20X/φ11	40X/φ6	4X	0.5X	101mm
4X	40Χ/φ6	80X/φ3	7X	0.07	
6X	60X/φ3.9	120X/φ2	11X		
0.5X	5Χ/φ60	10X/φ24	0.9X		143mm

A18.1828 Forensic Comparison Microscope Specification					
Magnification	2x~240x				
Head	Binocular Head, 30° Incline, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable				
Eveniese	WF10x/22mm, High Eyepoint				
Eyepiece	WF20x/12mm, High Eyepoint				
Nosepiece	6 Hole Click Stop Nosepiece				
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x,6x				
Objective	Auxiliary Lens 0.4x, 2.0x				
Working Distance	101mm				
View Field	Dia. 2.3~62mm				
Magnification Correcting	Magnification Correction System, With Correcting Lens				
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver				
	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm				
Working Stage	Round Tiltable Working Stage Dia. 90mm, 0-45 $^\circ$ Inclined, 360 $^\circ$ Rotatable				
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm				
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs				
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs				
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs				
Light Source	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs				
	Transmit Bottom Light, 2pcs				
	Ultraviolet Light Lens, 2pcs				
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color				
Adaptar	0.5x CCD Adapter For Digital Camera,1pc				
Adapter	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)				
CCD Camera	Built-in 3.0M High Resolution Color CCD Camera, USB 2.0 Output,2048*1536 Pixels, Pixel Size 3.2*3.2µm				
Power	80~240V Wide Range Voltage				
Bullet Holder	Standard Bullet Holder 2 Sets, Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects				
Dimension	Instrument Size 43*34*65cm				

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Software	Professional forensic image analysis software	A30.1821		
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813		
Digital Camera	9.7" LCD Pad Digital Camera, Android System, See A18.1828-LCD	A59.3520		



Total Optical Magnification Up To 2x~240x With 6 Holes Nosepiece Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Square & Round Working Stage Joint Moving Up/Down



Separation Line Adjust System in Black, with special designed adjust driver

Eyepiece Mag./Viewfield Objective	10X	20X	Photo Adapter	Video Adapter	Working Distance
1X	10X/φ21	20X/φ12	1.8X		
1.5X	15X/φ15	30X/φ8	2.7X		
2X	20X/φ11	40X/φ6	4X	0.5X	101mm
4X	40X/φ6	80X/φ3	7X	0.57	
6X	60X/φ3.9	120X/φ2	11X		
0.5X	5Χ/φ60	10X/φ24	0.9X		143mm

A18.18	28-LCD Forensic Comparison Microscope Specification
LCD Pad	9.7" LCD Pad Digital Camera, Android System, 5.0 M Pixels, Full Resolution 2592*1936 1* Mini USB2.0, 1*HDMI, 1* Micro-SD Card Slot (Up to 32GB), 1* 3.5mm Standard Stereo Earphone Slot,1* SIM Card Slot Details see A59.3520
Magnification	2x~240x
Head	Binocular Head, 30° Incline, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
Eyepiece	WF10x/22mm, High Eyepoint
	WF20x/12mm, High Eyepoint
Nosepiece	6 Hole Click Stop Nosepiece
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x,6x
Objective	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver
	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
Working Stage	Round Tiltable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
Light Course	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
Light Source	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Ultraviolet Light Lens, 2pcs
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
A destas	0.5x CCD Adapter For Digital Camera,1pc
Adapter	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)
CCD Camera	Built-in 3.0M High Resolution Color CCD Camera, USB 2.0 Output,2048*1536 Pixels, Pixel Size 3.2*3.2µm
Power	80~240V Wide Range Voltage
Bullet Holder	Standard Bullet Holder 2 Sets, Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects
Dimension	Instrument Size 43*34*65cm

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Software	Professional Forensic Image Analysis Software	A30.1821		
Bullet Holder	Motorized Bullet Holder 1 Set, Used With Software	A54.1813		



Total Optical Magnification Up To 2x~240x With 6 Holes Nosepiece Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Square & Round Working Stage Joint Moving Up/Down

Objective	Eyepiece 10X Mag./Viewfield ø22mm	<b>Eyepiece 20X</b> Mag./Viewfield φ12mm	Photograpging & Video System	Working Distance
1X/0.03	10X/φ22	20X/φ12		
1.5X/0.04	15X/φ15	30X/φ8		
2X/0.05	20X/φ11	40X/φ6	Measure According to	102mm
4X/0.072	40X/φ5.5	80X/φ3	Monitor & Digital Camera	
6X/0.075	60X/φ3.7	120X/φ2		
0.5X/0.02	5Χ/φ44	10X/φ24		138mm

A18.1829 Motorized	Digital Forensic Comparison Microscope, With Motorized Working Table
Magnification	2x~240x
Head	0-45° Tiltable Binocular Head, Interpupillary Distance 48~75mm, Diopter +/-5 Adjustable
<b></b>	WF10x/22mm, High Eyepoint
Eyepiece	WF20x/12mm, High Eyepoint
Nosepiece	6 Hole Click Stop Nosepiece
	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x,6x
Objective	Auxiliary Lens 0.4x, 2.0x
Working Distance	101mm
View Field	Dia. 2.3~62mm
Magnification Correcting	Magnification Correction System, With Correcting Lens
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver
	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm
Working Stage	Round Tiltable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs
	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs
Light Source	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs
	Transmit Bottom Light (Built-in Working Stage)
	Ultraviolet Light Lens, 2pcs
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color
Adamtan	0.5x CCD Adapter For Digital Camera,1pc
Adapter	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)
CCD Camera	Built-in 3.0M High Resolution Color CCD Camera, USB 2.0 Output,2048*1536 Pixels, Pixel Size 3.2*3.2µm
	Professional Forensic Image Analysis Software
	Motorized/Manual Viewfield Changeover Full /Split /Overlapping Image
Software	Motorized/Manual Control Working Stage X/Y/Z 3D Movement
	Motorized/Manual Control Round Working Stage Rotation +/- Direction
	Motorized/Manual Control To Change Objective Magnification
Power	80~240V Wide Range Voltage
Bullet Holder	Standard Bullet Holder 2 Sets, Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects
Dimension	Instrument Size 40*60*72cm

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813		

# A18.1830

Motorized Digital Comparison Microscope, 2x~240x. With Motorized Table



Total Magnification 2x~240x With 6 Holes Nosepiece With Motorized Working Table Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Motorized Square & Round Working Stage Joint Moving Up/Down

**ATTO** 

Objective	<b>Eyepiece 10X</b> Mag./Viewfield φ22mm	<b>Eyepiece 20X</b> Mag./Viewfield φ12mm	Photograpging & Video System	Working Distance
1X/0.03	10X/φ22	20X/φ12		102mm
1.5X/0.04	15X/φ15	30X/φ8		
2X/0.05	20X/φ11	40X/φ6	Measure According to	
4X/0.072	40X/φ5.5	80X/φ3	Monitor & Digital Camera	
6X/0.075	60X/φ3.7	120X/φ2		
0.5X/0.02	5Χ/φ44	10X/φ24		138mm

Magnification	2x~240x			
Head	0-45° Titable Bionocular Head, Interpupilary Distance 48~75mm, Diopter +/-5 Adjustable			
Eyepiece	WF10x/22mm, High Eyepoint			
	WF20x/12mm, High Eyepoint			
Nosepiece	6 Hole Click Stop Nosepiece			
Objective	LWD Infinity Plan Achromatic Objective 0.5x, 1x, 1.5x, 2x, 4x,6x			
	Auxiliary Lens 0.4x, 2.0x			
Working Distance	101mm			
View Field	Dia. 2.3~62mm			
Magnification Correcting	Magnification Correction System, With Correcting Lens			
Separation Line Adjusting	Separation Line Adjust System In Back, With Special Designed Adjust Driver			
Working Stage	Square Manual Working Stage 90*90mm, Moving Range 54*54*54mm			
	Round Tiltable Working Stage Dia. 90mm, 0-45° Inclined, 360° Rotatable			
	Joint Left/Right Moving Range 54mm, Joint Up/Down Range 60mm			
	12V50W Fan Cooling Strong Halogen Light, Brightness Adjustable, 2pcs			
	5W LED Cold Light, High Brightness, Brightness Adjustable, 2pcs			
Light Source	Coaxial Light Lens, To Observe In Deep Hole, Or Smooth Object Surface, 2pcs			
	Polarizing Light Lens, To Eliminate Flare Lights And Dazzling Lights, 2pcs			
	Transmit Bottom Light (Built-in Working Stage)			
	Ultraviolet Light Lens, 2pcs			
	Filters: Red, Blue, Yellow, Green, 2pcs Each Color			
Adapter	0.5x CCD Adapter For Digital Camera,1pc			
	Front View Photo Adapter 2.5X For SLR Digital Camera (Nikon And Canon)			
CCD Camera	Built-in 3.0M High Resolution Color CCD Camera, USB 2.0 Output,2048*1536 Pixels, Pixel Size 3.2*3.2µm			
Software	Professional Forensic Image Analysis Software			
	Motorized/Manual Viewfield Changeover Full /Split /Overlapping Image			
	Motorized/Manual Control Working Stage X/Y/Z 3D Movement			
	Motorized/Manual Control Round Working Stage Rotation +/- Direction			
	Motorized/Manual Control To Change Objective Magnification			
Working Table	A18.1830 Include Motorized Working Table, Size 60*120mm, Height 65mm, Motorized Up/Down 160mm			
Power	80~240V Wide Range Voltage			
Bullet Holder	Standard Bullet Holder 2 Sets, Bullet Holder Set for all kinds of Bullet, Cartridge and other Objects			
Dimension	Instrument Size 40*60*72cm			

Optional Accessories				
Light Source	150W Cold Light Source, With Optical Fiber & Light Collector	A56.1821		
Bullet Holder	Motorized Bullet Holder 1 Set	A54.1813		

# A18.1831

Comparison Microscope, Step Zoom, 3.2~288x

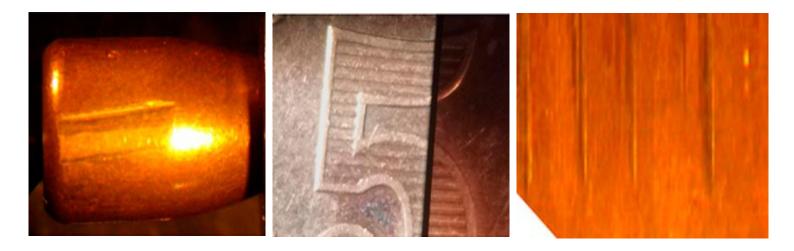




Step Zoom Lens Optical Magnification Up To 3.2x~288x Left/Right, Split, Overlapping Image For Forensic Comparison View Halogen 50W, LED 5W, Polarizing, Coaxial, UV Light Source Separation Line Adjust & Magnification Correcting System Square & Round Working Stage Joint Moving Up/Down

#### LED 5W Light Source





A18.1831 Comparsion Microscope			
Total Magnification	3.2x-288x		
Head	Binocular 45° Inclined, 48-75mm		
Eyepiece	WF10X/22mm, WF20X/12mm		
Step Zoom Lens	0.8x,1.25x,2x,3.2x,4.8x		
Auxiliary Lens	0.4x, 2.0x		
View Field	Full Left, Full Right, Split Image, Overlapping Image, 2mm-60mm		
	Moving Range: X-55mm, Y-55mm, Z-65mm, 0°-45° Inclination Adjustable		
	Joint Left/Right Moving Range 62mm, Joint Up/Down Range 80mm		
Working Stage	Round Stage, 360° Rotating		
	Bullet Holder 2 Sets		
Bridge	Motorized Up/Down		
Light Source	5W LED+12V/50W Halogen+108 LEDS Ring Light UV Filter Filter Red/Blue/Yellow/Green		
Camera	3.0M Digital Camera, Built-in CCD		
	0.5x C-Mount		
Adapter	Photo Adapter For Cannon SLR		
Function Panel	Touch Type, User-Friendly Design, Easy To Operate And Accurate		
Power	Power Supply 80-240V		

## A18.4902 Digital Comparison Microscope





Total Magnification 3.8x~230x Full Left/Right, Split-image Or Overlapping Image Comparision Separation Line Adjusting System Full Range Light Source Accessories Included Light Source Brightness Adjustable,Position & Angle Adjustable Freely

A18.4902 Digital Forensic Comparison Microscope Specification	
---------------------------------------------------------------	--

Hardware configuration		
Image Sensor	SONY IMX274 COMS Sensor	
Expose Mode	Rolling Shutter.	
Maximum Resolution	3840 x 2160 (8,294,400 pixels)	
Sensor Optical Format	1/2.5"	
Pixel Size	1.62µm x 1.62µm	
Dynamic Range	>80dB	
SNRmax	≥50dB	
Spectral Charactristics	380-650nm	
Exposure Capability	Real-time Auto, Single Auto, Manual Adjustment	
White Balance	Real-time Auto, Single Auto, Manual Adjust R G B Seperately	
	Snapshot	
	Picture Format: JPG	
Record Format	Resolution: 3840x2160	
Record Format	Record	
	Video Format: MOV	
	Resolution: 3840X2160@25FPS,2592X1944@25FPS,2048x1536@25FPS	



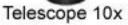
Optical Parameters			
Optical Magnification Of Lines	0.83x~10x		
Optical Resolution Of Lines(um)	5um		
Working Distance(mm)	72mm		
Observation Range(mm)	0.65x0.36~8.2x4.6mm		
Comprehensive Magnification	Full Screen Display On A 21-inch 16:9 Minitor:57x~715x		
	Full Screen Display On A 17-inch 16:9 Minitor:46x~578x		
	Square Manual Working Stage 120*120*43mm, Moving Range		
	55*55*55mm		
Working Stage	Joint Left/Right Moving Range 80mm, Joint Up/Down Range 150mm		
	Clamp Working Stage Dia.100mm, 360° Rotatable		
	Round Titable Working Stage Moving Range 0-14.5mm, 45°-90° Inclined, 360° Rotatable		
Ring	LEDs( Coaxial & Diffuse LED ) Parameters		
Power	<3W		
Input Voltage	DC 5V		
Dimming Method	0-100% Linear Adjustment		
	Coaxial: ≥12000LX (Height 100mm)		
Centric Brightness	Diffuse Reflection: ≥42000LX (Height 100mm)		
	Coaxial Light: 13 Small Angle Highlighting Lamp Beads		
Number Of LEDs			
	Diffuse Light: 40 Bright White LEDs		
Color Temperature	5000K~5500K		
Adjustment Method Separate Control (Independently Controlled By One Knob For One			
	Of Light) Seven-color LED Parameters		
Devuer.			
Power	<3W DC 5V		
Input Voltage			
Dimming Method	0-100% Linear Adjustment Red: 610um		
	Yellow: 600um		
	Warm White: 586um		
Comprehensive Magnification	Green: 528um		
Comprenencive magnification	White: 494um		
	Purple: 458um		
	Blue: 470um		
Adjustment Method	Brightness And Light Switching Are Controlled By Different Knobs		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Software Environment		
Microsoft ® Windows ® XP / 7 / 8 /8.1/10(32 & 64 bit)			
	CPU: Dual-core 3.0 GHz Or More CPU		
Windows System Demand	Memory: 4G Or More		
	Network:10/100/1000Mbps Compatitable Interface		
	At Least 10 GB Available Hard Disk Space		
Operating Environment			
Operating Temperature	0°C~ 40°C		
Storage Temperature	-20°C~ 60°C		
Operating Humidity	30~60%RH		
Storage Humidity 10~80%RH			

## A19.0209-40

Phase Contrast Microscope, Achromatic Phase Contrast 40x









Achromatic Phase ontrast Objectives 40x



Phase Contrast Slide 40x



Phase Contrast Condenser

Sliding Binocular Head 30° Inclined, 360° Rotatable Achromatic 4x,10x,100x, Achromatic Phase Contrast 40x Objective Double Layer Mechanical Stage, 140\*140mm, Moving Range 50\*75mm Phase Contrast Slide For 40x, Phase Contrast Condenser, Centering Telescope 10x Built-in Illumination 6V20W Halogen Lamp, 100~240V

	A19.0209-40 Phase Contrast Microscope	
Magnification	40x~1000x	
Head	Sliding Binocular Head, 30° Inclined, Interpupillary Distance 55~75mm, Left Eyepiece Tube Diopter Adjustable +/-5°	
Eyepiece	Wide Field WF10x/18mm	
Nosepiece	Backward Quadruple Nosepiece	
Objective	Achromatic 4x/0.10, 10x/0.25, 100xs/1.25(Oil)	
Stage	Double Layer Mechanical Stage, 140*140mm, Moving Range 50*75mm	
Focusing	Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002mm, Coarse Focusing Stroke 37.7mm/Rotation, With Tension Adjustment, With Up Limit, Base Bearing Black Plastic Cap	
Condenser	N.A.1.25 Abbe Condenser, Iris Diaphargm, With Filter Holder	
Filter	Blue, Yellow, Green	
	Phase Contrast Objective 40x	
	Phase Contrast Slide 40x	
Phase Contrast	Phase Contrast Condenser	
	Centering Telescope 10x	
Light Source	Built-in Illumination 6V20W Halogen Lamp, 100~240V	

## A19.0214

Phase Contrast Microscope, Achromatic Turret Phase Contrast





Sedentopf Trinocular Head 30° Inclined 360° Rotatable Achromatic Phase Contrast Objective 10x20x40x100x Turret Disc Phase Contrast Condenser, Centering Telescope Large Size Double Layer Mechanical Stage 160x140mm/75x50mm 6V20W Halogen Lamp Kohler Illumination

A19.0214 Phase Contrast Microscope		
Head	Seidentopf Trinocular Head, Inclination 30°, Rotatable 360°	
Eyepiece	WF10x/18mm	
Nosepiece	Backward Quadruple Nosepiece, Ball Bearing Inner Locating	
	Phase Contrast Achromatic Objective:	
	10x/0.25 PHP	
Dhaaa	20x/0.40 PHP	
Phase Contrast Set	40x/0.65 PHP(Spring)	
Contrast Set	100x/1.25 PHP (Spring,Oil)	
	Centering Telescope	
	Turnplate Phase Contrast Condenser	
Working Stage	Double Layer Mechanical 160x140mm, Moving Range 75x50mm	
FUCUSING	Coaxial Coarse & Fine Focus System, Fine Focus Minimum Division 0.002mm, Tension Adjustable, With Up Stop	
Condenser	Abbe N.A.1.25, Rack & Pinion Height Adjustment	
Filter	Blue, Green, Yellow Filter	
Light Source	Kholer Illumination 6V 20W Halogen Lamp, Brightness Adjustable, With Collector For Halogen Lamp	

### A19.0911 Phase Contrast Microscope





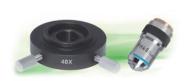


Infinity Chromatic Aberration Correction System, Bright Field & Phase Contrast Infinity Plan Phase Contrast Objective 10x20x40x100x & Centering Telescope 10x Turret Phase Contrast Condenser, For 10x20x40x100x Phase Contrast Double Layer Mechanical Stage 150x162mm /76×50mm LCD Information Screen On Base For Color Temperature Adjust & Brightness Memory Function

A19.0911 Phase Contrast Microscope		
Optical System	Infinity Chromatic Aberration Correction System	
Head	Binocular, 360° Rotation, Interpupillary Distance 50-75mm	
	Trinocular, Light Split 8:2, 360° Rotation, Interpupillary Distance 50-75mm	
Eyepiece	WF10x/20mm Wide Field Eyepiece,Centered yepiece (Φ30mm)	
Nosepiece	5 Holes Nosepiece	
Objective	Infinity Plan Achromatic 10x Phase Contrast Objective 10x20x40x100x	
Working Stage	Double Layer Mechanical Stage 150mm×162mm	
Condenser	N.A. 1.25 Koehler Illuminator DISC Phase Contrast Condenser Group, For 10X, 20X, 40X, 100X Phase Contrast Observation	
Light Source	Source 3W LED, With LCD Screen, Adjustable Color Temperature (3000K-5600K), Brightness Memory Function	
Power	Wide Range 100V -240V	

#### A19.1008 Phase Contrast Microscope





Classical 107BN Phase Contrast Biological Microscope Phase Contrast Objective 40x, Phase Contrast Slide 40x Telescope 10x, Phase Contrast Condenser High Quality Optical System Bring Clear & Sharp Image Large Size Mechanical Stage 140x140mm, Moving Range 50x75mm

Items	A19.1008-40 Phase Contrast Microscope		
Magnification	40x~1000x		
Head	Sliding Binocular Head, 45° Inclined		
Eyepiece	Wide Field WF10x/18mm		
Nosepiece	Quadruple Nosepiece		
Objective	Achromatic 4x/0.10, 10x/0.25, 100xs/1.25(Oil)		
Stage	Double Layer Mechanical Stage, 140*140mm, Moving Range 50*75mm		
Focusing	Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002mm, Coarse Focusing Stroke 37.7mm/Rotation, With Tension Adjustment, With Up Limit		
Condenser	N.A.1.25 Abbe Condenser, Iris Diaphargm, With Filter Holder		
Filter	Blue, Yellow, Green		
	Phase Contrast Objective 40x		
	Phase Contrast Diaphragm 40x		
Phase Contrast	Abbe Condenser N.A.1.25		
	Centering Telescope 10x		
	Green Filter		
Illumination	Plan-Concave Mirror		
mannination	Built-in Illumination 6V20W Halogen Lamp, 100~240V		
	A19.1008-40 Phase Contrast Microscope Optional Accessory		
	Sliding Trinocular Head, 45° Inclined, Anti-Mould System	A53.1004- 5LTB	
Head	Seidentopf Binocular Head, 30° Inclined, Anti-Mould System	A53.1003- 5LAS	
	Seidentopf Trinocular Head, 30° Inclined, Anti-Mould System	A53.1004- 5LTS	
Eyepiece	Wide Field Eyepiece P16x/11mm	A51.1002-16	
Nosepiece	Quintuple Nosepiece	A54.1001-5M	

### A10.0202 Dark Field Microscope, 12V50W Halogen Lamp





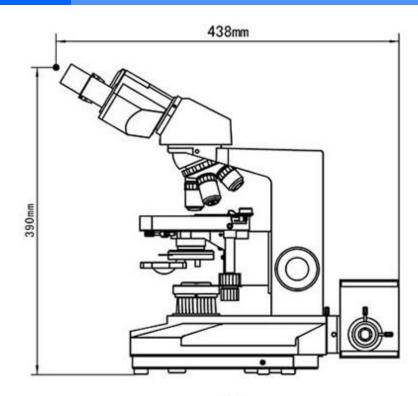
Dark Field Condenser Dry N.A. 0.77~0.91

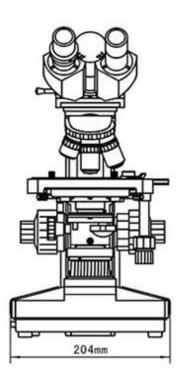


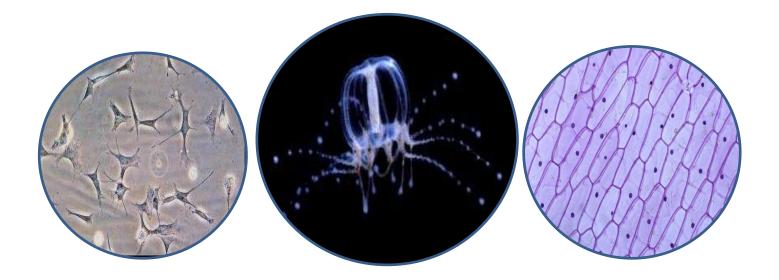
Dark Field Condenser Immersion N.A.1.25~1.40



Trinocular Head Light Split Switch E100:P0/E0:P100 With WF10x/20mm Eyepiece Quintuple Nosepiece With Plan Achromatic Objective 4x,10x,20x,40x,100x Dark Field Condenser Dry 0.77~0.91 For 20x or Lower Power Objective Dark Field Condenser Immersion 1.25~1.40 For 40x or Higher Power Objective 12V50W High Brightness Halogen Light Source Special For Dark Field View







	A10.0202 Dark Field Microscope, 12V50W Halogen Lamp		
Head	Binocular Head, 30° Inclined, Interpapillary Distance 55~75mm, Left Eyepiece Tube Diopter Adjustable +/-5°, 100% Light Pass To Photo Tube		
Eyepiece	WF10x/20mm Wide Field Eyepiece		
Nosepiece	Backward Quintuple Nosepiece, Ball Bearing Inner Locating		
	Plan Achromatic Objective:		
	PL4x/0.10, W.D.21mm		
Objective	PL10x/0.25, W.D. 5.0mm		
Objective	PL20x/0.40, W.D.8.8mm		
	PL40x/0.65, W.D. 0.66mm (S)		
	PL100x/1.25, W.D.0.36mm (S,O)		
Working Stage	Double Layer Mechanical Stage 160*140mm, Moving Range 75*50mm		
Focusing	Coaxial Coarse & Fine Focus Knob, With Tension Adjustable And Limit Stopper, Minimum Division 0.002mm		
Condenser	Abbe Condenser N.A.1.25, Rack & Pinion Height Adjustable		
Filter	Blue Filter, Frosted Filter		
Dark Field Condenser	Dry, N.A.1.25~1.40	A5D.0210-D	
	Immersion, N.A.0.71~0.99	A5D.0210-I	
Light Source	12V50W Halogen Lamp, Brightness Adjustable, External Power Supply Box, Light Collector With Iris Diaphragm		

# **Optional Accessories**

A10.0202 Dark Field Microscope Optional Accessories			
LVODIOCO	WF16x/11mm Wide Field Eyepiece	A51.0203-1A	
	Retical Eyepiece, WF10x/20mm, Micrometer Div 0.1mm	A51.0205-10	
Objective	Plan Achromatic Objective PL60x/0.85, W.D.0.25mm	A52.0203-60	
	Green Filter	A56.0209-02	
Filter	Yellow Filter	A56.0209-03	
	Simple Polarizing Set		
Polarizing	Polarizer, 360° Rotatable, Used On Base Light Collector	A5P.0201-1	
	Analyizer Glass, Put Between Head And Body		
Adapter	CCD Adapter 0.4x	A55.0202-01	
	CCD Adapter 0.5x	A55.0202-04	
	CCD Adapter 1.0x	A55.0202-02	
	CCD Adapter 0.5x With Dividing 0.1mm/Divv	A55.0202-03	
	Digital SLR Camera Adapter for Canon EF Series	A55.0204-02	

### A10.1007 Dark Field Microscope

#### OPTO-EDU



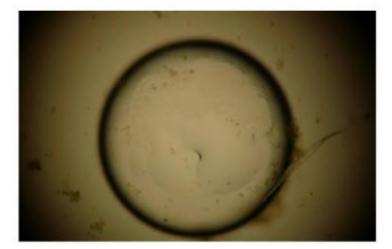


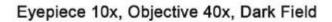


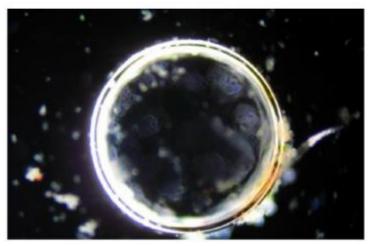
Total Magnification 40x-1000x With Special Dark Field Attachment Dry Dark Field Condenser N.A.0.7~0.9 Immersion Dark Field Condenser N.A.1.25-1.36 Dark Field Objective Achromatic 100x, With Cone Diaphram Dark Field Objective Plan 100x, With Iris Diaphram

#### **Bright Field & Dark Field Contrast**

Eyepiece 10x, Objective 40x, Bright Field







A10.1007 Professional Dark Field Microscope				
Magnification	40x~1000x			
Head	Sliding Trinocular Head, 45° Inclined, With C	C-Mount 0.45x		
Eyepiece	Wide Field WF10x/18mm			
Nosepiece	Quadruple Nosepiece			
Objective	Achromatic 4x/0.10, 10x/0.25, 40xs/0.65, 10	0xs/1.25(Oil)		
Stage	Double Layer Mechanical Stage, 140*140mr	m, Moving Range 50*75mm		
Focusing	Low Position Coaxial Coarse & Fine Focusir Adjustment, With Up Limit	Low Position Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002mm, With Tension Adjustment, With Up Limit		
Condenser	NA1.25 Bright Field Condenser with Iris Diap	ohram		
	Dark Field Condenser, N.A. 0.7~0.9, Dry	Dark Field Condenser, N.A. 0.7~0.9, Dry		
Dark Field	Dark Field Condenser, N.A. 1.25~1.35, Immersion			
Dark Fleiu	Achromatic Dark Field Objective 100x, With Cone Diaphragm			
	Plan Dark Field Objecive100X, With Iris Diap	Plan Dark Field Objecive100X, With Iris Diaphragm		
Filter	Blue, Yellow, Green	Blue, Yellow, Green		
Light Source	Built-in Illumination 6V20W Halogen Lamp	Built-in Illumination 6V20W Halogen Lamp		
Adapter	C-Mount 0.45x			
	A10.1007 Dark Field Microscope Optional Accessories			
Adapter	Photo Adapter, For Nikon or Cannon SLR Camera, 1.0x	A55.1001		
-	C-Mount 1.0x	A55.1002-10		
Eyepiece	P16x/11mm	A51.1002-16		

### A10.1018 Professional Dark Field Microscope





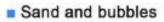


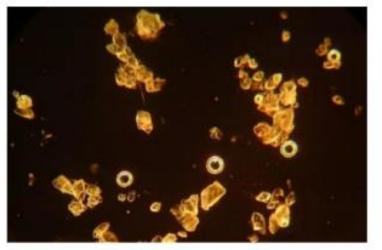
A5D.1030-04

Dark Field Objective With Iris Diaphragm Inside Infinity Plan 100x(Oil), Used With Immersion Darl Field

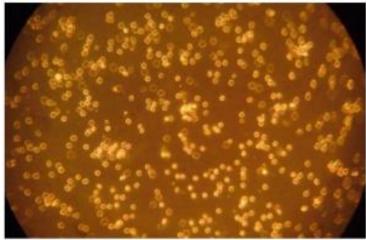
Condenser, For Professional Dark Field Observation

Infinity Plan Objective 4x10x40x60x100x Halogen 24V100W, Kohler Illumination Immersion Dark Field Condenser N.A.1.25~1.36 Dry Dark Field Condenser N.A.0.7~0.9 Infinite Plan Dark Field Objective 100X With Iris Diaphragm



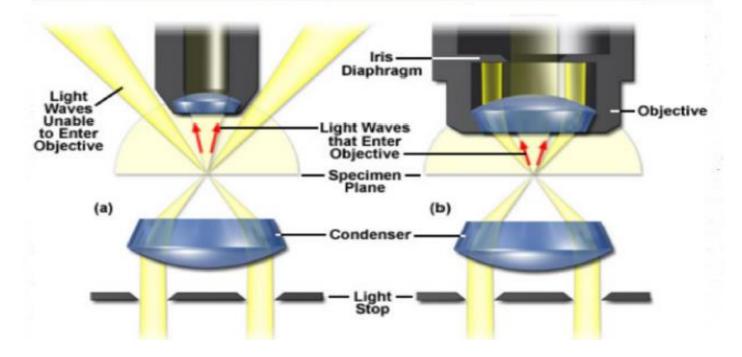


Red Blood Cell



	A10.1018 Dark Field Laboratory Biological Microscope		
Optical System	Infinity Plan Optical System		
Head	Seidentopf Trinocular Head, 30° Inclined, 360° Rotatable, Interpupillary 48~75mm, Left Eyepiece Tube Diopter Adjustable		
Eyepiece	Extra Wide Field Eyepiece EW10x/22mm, Eyepiece Tube Dia.30mm		
Nosepiece	Backward Quintuple Nosepiece, With Slide Slot		
Objective	Infinity Plan Achromatic Objective 4x,10x,40x,100x		
Focusing	Coaxial Coarse & Fine Adjustment, Focusing Range 24mm, Fine Division 0.001m	nm, Coarse Stroke 37.7mm	
Working Stage	Double Layer Mechanical Stage, 185*142mm, Moving Range 55*75mm		
Condenser	Swing Out Condenser N.A.0.9/0.25		
Illumination	Halogen Lamp 6V30W, External Kohler Illumination, With Asperical Collector, Br	ightness Adjustable	
Filter	Green, Blue		
Dark Field	Dark Field Condenser, N.A. 0.7~0.9, Dry, Use With 40x Or Lower Magnification Objective	A5D.1010-D	
Adapter	Trinocular Adapter + Eyepiece Tube Photo Adapter Dia.23.2mm		
	Optional Accessories		
	Seidentopf Binocular Head, 30° Inclined, Interpupillary 48~75mm	A53.1003-7	
Head	Upgrade to Tilting Binocular Head 5°~35°	A53.1005-3	
	Upgrade to Tilting Trinocular Head 5°~35°	A53.1005-4	
	Extra Wide Field Eyepiece EW10x/20mm, Eyepiece Tube Dia.30mm	A51.1003-1020	
Eyepiece	Extra Wide Field Eyepiece EW20x/12mm, Eyepiece Tube Dia.30mm	A51.1003-2012	
	Extra Wide Field Eyepiece EW15x/16mm, Eyepiece Tube Dia.30mm	A51.1003-1516	
Objective	Infinity Plan Achromatic Objective 20x	A52.1006-20	
Objective	Infinity Plan Achromatic Objective 60x	A52.1006-60	
Nosepiece	Sextuple Nosepiece	A54.1001-6	
Dark Field	Dark Field Condenser, N.A. 1.25~1.36, Immersion, Use With 100x Objective	A5D.1010-I	
	Dark Field Objective, Infinity Plan 100x(Oil)	A5D.1030-3	
	Dark Field Objective, Infinity Plan 100x(Oil), With Iris Diaphragm	A5D.1030-4	
III	Upgrade To Halogen Lamp 24V50W, For Better Dark View	A56.1018-50W	
Illumination	Upgrade To Halogen Lamp 24V100W, For Better Dark View	A56.1018-100W	
Adapter	0.45x C-Mount	A55.1002-45	

#### Dark Field Microscope Light Path And Observation Case



## A12.1061 Laboratory Microscope

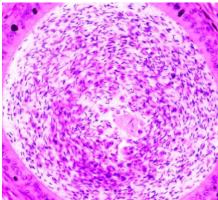




Creative Water Immersion Objective 100x

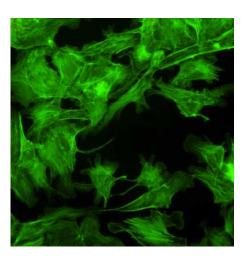


Brand New Design 2019 For High Level Laboratory Research! ECO Function Extra Wide Eyepiece 10x/22mm Diopter Adjustable Large Rackless Safty Working Stage 230x150mm, Moving Range 78x54mm Infinity Plan NIS60 Objective 4x10x40x100x, Water 100x Immersion Available Upgradeable To Dark Field, Polarizing, Phase Contrast & Fluorescent Function



Bright Field Dark Field Phase Contrast Simple Polarizing Observation Combined

> Can Upgradeable To Fluorescence Microscope A16.1062



A12.1061, A1	2.1061, A12.1602 Laboratory Biological Microscope,A6.1062 LED Fluorescent Microscope.		A12.1061		A12.1062		1062	Coto No
			-т	-B	-т	-B	-т	Cata. No.
Optical	NIS Infinite Optical System			_				
System		•	•	•	•	-	•	
	Bright Field	•	•	•	•	•	•	
Observation	Dark Field	0	0	0	0	0	0	
Method	Phase Contrast	-	-	0	0	0	0	
	Epi-Fluorscence	-	-	0	0	•	•	
	Polarizing	0	0	0	0	0	0	
	Seidentopf Binocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	•		•		•		A53.1061-B
	Seidentopf Trinocular Head, Inclined At 30° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Fixed 50:50		•		•		•	A53.1061-T
	Seidentopf Trinocular Head, Inclined At 30° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Switchable 0:100/100:0	0	0	0	0	0	0	A53.1061-TS
Head	Tilting Binocular Head, Inclined 5°~35°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	0	0	0	0	0	0	A53.1061-BS
	Digital Head, Built-in Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time Upgrade to <u>A31.1062-5.0M</u>	0	0	0	0	0	0	A53.1061-5.0N
	Digital Head, Built-in Wireless Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time, App Software, By Scanning QR Code On Microscope, Installing App & Identifying Microscope, You Can View Micro Image On Mobile Phone & Tablet. Upgrade to <u>A31.1062-5.0W</u>	-	-	0	0	-	-	A53.1061- 5.0W
Eyepiece	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-2012
	Quintuple Nosepiece, Dovetail Interface	•	•	-	-	-	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	-	•	•	•	•	
	4x/0.10, W.D.20.6mm	•	•	-	-	-	-	A52.1045-4
	10x/0.25, W.D.17.9mm	•	•	-	-	-	-	A52.1045-10
	20x/0.40, W.D.6.40mm	0	0	-	-	-	-	A52.1045-20
NIS45	40x/0.60, W.D.1.50mm	•	•	-	-	-	-	A52.1045-40
nfinity Plan	60x/0.80, W.D.0.30mm	0	0	-	-	-	-	A52.1045-60
Objective	100x/1.25(Oil), W.D.0.16mm	•	•	-	-	-	-	A52.1045-100
	100x/1.10(Water), W.D.0.16mm	0	0	-	-	-	-	A52.1045- 100W

	4x/0.10, W.D.30.0mm	-	-	•	•	•	•	A52.1060-4
	10x/0.25, W.D.10.2mm	-	-	•	•	•	•	A52.1060-10
NIS60	20x/0.40, W.D.4.8mm	-	-	0	0	0	0	A52.1060-20
Infinity Plan	40x/0.65, W.D.1.5mm	-	-	•	•	•	•	A52.1060-40
Objective	60x/0.80, W.D.0.30mm	-	-	0	0	0	0	A52.1060-60
,	100x/1.25(Oil), W.D.0.3mm	-	-	•	•	•	•	A52.1060-100
	100x/1.10(Water), W.D.0.2mm	-		0	0	0	0	A52.1060-100W
NIS60	10x/0.25, W.D.10.2mm	-	-	0	0	0	0	A5C.1060-10
Infinity Plan	20x/0.40, W.D.12.0mm	-	_	0	0	0	0	A5C.1060-20
Phase	40x/0.65, W.D.0.7mm	-	_	0	0	0	0	A5C.1060-40
Contrast								
Objective	100x/1.25(Oil), W.D.0.2mm	-	-	0	0	0	0	A5C.1060-100
	Coaxial Coarse & Fine Adjustment, Tension							
Focusing	Adjustable, Fine Division 0.002mm, Coarse	•	•	•	•	•	•	
	Focusing Range 28mm							
	Double Layer Mechanical Rackless Stage,							
	Size 230x150mm, Moving Range 78x54mm	•	•	-	-	-	-	
Marking Stogg	Double Layer Mechanical Rackless Stage,							
Working Stage	Size 230x150mm, Moving Range			-	-		-	
	78x54mm, Anti-Scratch Hard Coating Dural	-	-	•	•	•	•	
	Platform							
	Inserted Abbe Condenser N.A. 1.25, With							
Condenser	Slot For Phase Contrast Slide And Dark	•	•	•	•	•	•	
	Field Slide.							
	1W S-LED Critical Illumination	•	•	-	-	-	-	
Illumination	3W S-LED Kohler Illumination	-	-	•	•	•	•	
	Green Filter	•	•	•	•	•	•	
Dark Field	Dark Field Slide	0	0	0	0	0	0	A5D.1062
Polarizing	Simple Polarizing Set	0	0	0	0	0	0	A5P.1008
Dhasa	Phase Slider For 10x-40x	0	_	_	_			A5C.1062-
Phase Contrast	Phase Slider FOI TOX-40X	0	0	0	0	0	0	S1040
Contrast	Phase Slider For 100x	0	0	0	0	0	0	A5C.1062-S100
	3W LED Epi-Fluorescence Attachment, Fly-							
	Eye Lens Illumination, With 2 Filter Position							
Epi-	+ Bright Field Position, Switch Quickly, With	0	0	0	0	•	•	A5F.1062
Fluorescence	Attachable UV Shield,							
Attachment	B, G Filters							
	Filter U	0	0	0	0	0	0	A5F.1062-U
	Filter V	0	0	0	0	0	0	A5F.1062-V
Photo Adapter	1.0x C-Mount	0	0	0	0	0	0	A55.1062-1.0
	0.5x C-Mount	0	0	0	0	0	0	A55.1062-0.5
	AC 100-240V,50/60Hz	•	•	•	•	•	•	
Power Supply	USB Charging Port, Support To Use							
	Exeternal Rechargeable Battery Power	٠	•	•	•	•	•	
	Bank Like Mobile Phone Out Door Freely							
	LCD Screen On Front Of Body, Display							
	Using State Of Microscope, Including							
LCD Screen	Magnification, Light Intensity, Standby	-	-	•	•	•	•	
	Status, Set Power Off Timer 5 Mins to 8							
	Hours, And So On.							
Dimensions	220(W)x290(D)x472(H) mm			_				
Dimensions			•	•	•	•	•	

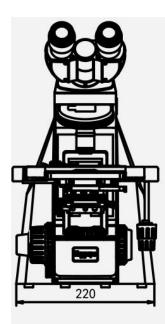
## A12.1062 Laboratory Microscope

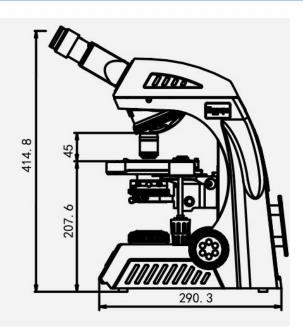






Brand New Design 2019 High Level Laboratory Research Microscope Coding Quintuple Nosepiece LCD Screen Base With Brightness Memory Function Large Rackless Safty Working Stage 230x150mm, Moving Range 78x54mm Infinity Plan NIS60 Objective 4x10x40x100x, Water 100x Immersion Available Upgradeable To Dark Field, Polarizing, Phase Contrast & Fluorescent Function





A12. <u>1061, A1</u>	2.1061, A12.1602 Laboratory Biological Microscope,		1061	A12.	1062	A16.	1062	
	D Fluorescent Microscope	-B	-т	-В	-т	-B	-т	Cata. No.
Optical System	NIS Infinite Optical System	•	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	•	
	Dark Field	0	0	0	0	0	0	
Observation	Phase Contrast	-	-	0	0	0	0	
Method	Epi-Fluorscence	-	-	0	0	•	•	
	Polarizing	0	0	0	0	0	0	
	Seidentopf Binocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	•		•		•		A53.1061-B
	Seidentopf Trinocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Fixed 50:50		•		•		•	A53.1061-T
	Seidentopf Trinocular Head, Inclined At 30°, , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Switchable 0:100/100:0	0	0	0	0	0	0	A53.1061-TS
Head	Tilting Binocular Head, Inclined 5°~35°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	0	0	0	0	0	0	A53.1061-BS
	Digital Head, Built-in Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time Upgrade to <u>A31.1062-5.0M</u>	0	0	0	0	0	0	A53.1061-5.0M
	Digital Head, Built-in Wireless Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time, App Software, By Scanning QR Code On Microscope, Installing App & Identifying Microscope, You Can View Micro Image On Mobile Phone & Tablet. Upgrade to A31.1062-5.0W	-	-	0	0	-	-	A53.1061- 5.0W
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	•	•	A51.1029-1022
Eyepiece	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-2012
	Quintuple Nosepiece, Dovetail Interface	•	•	-	-	-	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	-	•	•	•	•	
	4x/0.10, W.D.20.6mm	•	•	_	_	_	_	A52.1045-4
	· · · · · · · · · · · · · · · · · · ·	•		-	-	-	-	
	10x/0.25, W.D.17.9mm	•		-	-	-	-	A52.1045-10
NIS45	20x/0.40, W.D.6.40mm	0	0	-	-	-	-	A52.1045-20
Infinity Plan	40x/0.60, W.D.1.50mm	•	•	-	-	-	-	A52.1045-40
Objective	60x/0.80, W.D.0.30mm	0	0	-	-	-	-	A52.1045-60
•	100x/1.25(Oil), W.D.0.16mm	•	•	-	-	-	-	A52.1045-100
	100x/1.10(Water), W.D.0.16mm	0	0	-	-	-	-	A52.1045- 100W

	4x/0.10, W.D.30.0mm	-	_	•	•	•	•	A52.1060-4
	10x/0.25, W.D.10.2mm	-	-	•	•	•	•	A52.1060-10
NIS60	20x/0.40, W.D.4.8mm	-	_	0	0	0	0	A52.1060-20
Infinity Plan	40x/0.65, W.D.1.5mm	_	_	•	•	•	•	A52.1060-40
Objective	60x/0.80, W.D.0.30mm			•	0	0	•	A52.1060-40
Objective	100x/1.25(Oil), W.D.0.3mm	_	_	•	•	•	•	A52.1060-00
	100x/1.10(Water), W.D.0.2mm	_	-	0	0	0	•	A52.1060-100
NIS60	10x/0.25, W.D.10.2mm	-		0	0	0	-	A5C.1060-10
		-	-				0	
Infinity Plan Phase	20x/0.40, W.D.12.0mm	-	-	0	0	0	0	A5C.1060-20
Contrast	40x/0.65, W.D.0.7mm	-	-	0	0	0	0	A5C.1060-40
Objective	100x/1.25(Oil), W.D.0.2mm	-	-	0	0	0	0	A5C.1060-100
	Coaxial Coarse & Fine Adjustment, Tension							
Focusing	Adjustable, Fine Division 0.002mm, Coarse	•	•	•	•	•	•	
	Focusing Range 28mm							
	Double Layer Mechanical Rackless Stage,	•		_	_	_	_	
	Size 230x150mm, Moving Range 78x54mm	•						
Working Stage	Double Layer Mechanical Rackless Stage,							
working otage	Size 230x150mm, Moving Range	_	_					
	78x54mm, Anti-Scratch Hard Coating Dural	-	-	-	-		•	
	Platform							
	Inserted Abbe Condenser N.A. 1.25, With							
Condenser	Slot For Phase Contrast Slide And Dark	•	•	•	•	•	•	
	Field Slide.							
	1W S-LED Critical Illumination	•	•	-	-	-	-	
Illumination	3W S-LED Kohler Illumination	-	-	•	•	•	•	
	Green Filter	•	•	•	•	•	•	
Dark Field	Dark Field Slide	0	0	0	0	0	0	A5D.1062
Polarizing	Simple Polarizing Set	0	0	0	0	0	0	A5P.1008
Phase	Phase Slider For 10x-40x	0	0	0	0	0	0	A5C.1062- S1040
Contrast	Phase Slider For 100x	0	0	0	0	0	0	A5C.1062-S100
	3W LED Epi-Fluorescence Attachment, Fly-	-					-	
	Eye Lens Illumination, With 2 Filter Position							
Epi-	+ Bright Field Position, Switch Quickly, With	0	0	0	0	•	•	A5F.1062
Fluorescence	Attachable UV Shield,			-	-			
Attachment	B, G Filters							
	Filter U	0	0	0	0	0	0	A5F.1062-U
	Filter V	0	0	0	0	0	0	A5F.1062-V
	1.0x C-Mount	0	0	0	0	0	0	A55.1062-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	0	0	A55.1062-0.5
 	AC 100-240V,50/60Hz	•	•	•	•	•	•	,
	USB Charging Port, Support To Use	•	-	-	-		-	
Power Supply	Exeternal Rechargeable Battery Power	-	_	-	-	_	-	
	Bank Like Mobile Phone Out Door Freely	•		-	-		•	
	LCD Screen On Front Of Body, Display							
	Using State Of Microscope, Including			_	_	_	-	
LCD Screen	Magnification, Light Intensity, Standby	-	-	•	•	•	•	
	Status, Set Power Off Timer 5 Mins to 8							
	Hours, And So On.							
Dimensions	220(W)x290(D)x472(H) mm	•	•	•	•	•	•	
Note:" <ul><li>"In Tab</li></ul>	le Is Standard Outfits," o" Is Optional Accesso	ories "-	·" Is Uı	navaila	able			

## A16.1062 LED Fluorescent Microscope, B,G





Brand New Design 2019 For High Level Laboratory Research! Coding Quintuple Nosepiece LCD Screen Base With Brightness Memory Function Large Rackless Safty Working Stage 230x150mm, Moving Range 78x54mm Infinity Plan NIS60 Objective 4x10x40x100x, Water 100x Immersion Available 3W LED Epi-Fluorescence Attachment, Fly-Eye Lens Illumination, B,G Filters

OPTO-EDU



Coded Nosepiece (Available In A12.1062 Series)

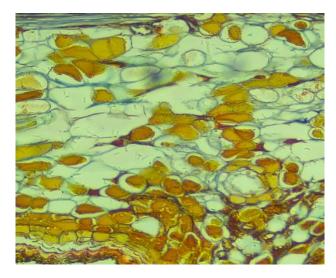
It Can Memorize The Illumination Brightness When Using Each Objective. When Different Objectives Are Converted To Each Other, The Light Intensity Is Automatically Adjusted To Reduce Visual Fatigue And Improve Work Efficiency.

A12. <u>1061, A1</u>	2.1061, A12.1602 Laboratory Biological Microscope,		1061	A12.	1062	A16.	1062	
	D Fluorescent Microscope	-B	-т	-В	-т	-B	-т	Cata. No.
Optical System	NIS Infinite Optical System	•	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	•	
	Dark Field	0	0	0	0	0	0	
Observation	Phase Contrast	-	-	0	0	0	0	
Method	Epi-Fluorscence	-	-	0	0	•	•	
	Polarizing	0	0	0	0	0	0	
	Seidentopf Binocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	•		•		•		A53.1061-B
	Seidentopf Trinocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Fixed 50:50		•		•		•	A53.1061-T
	Seidentopf Trinocular Head, Inclined At 30°, , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Switchable 0:100/100:0	0	0	0	0	0	0	A53.1061-TS
Head	Tilting Binocular Head, Inclined 5°~35°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	0	0	0	0	0	0	A53.1061-BS
	Digital Head, Built-in Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time Upgrade to <u>A31.1062-5.0M</u>	0	0	0	0	0	0	A53.1061-5.0M
	Digital Head, Built-in Wireless Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time, App Software, By Scanning QR Code On Microscope, Installing App & Identifying Microscope, You Can View Micro Image On Mobile Phone & Tablet. Upgrade to A31.1062-5.0W	-	-	0	0	-	-	A53.1061- 5.0W
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	•	•	A51.1029-1022
Eyepiece	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1029-2012
	Quintuple Nosepiece, Dovetail Interface	•	•	-	-	-	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	-	•	•	•	•	
	4x/0.10, W.D.20.6mm	•	•	_	_	_	_	A52.1045-4
	· · · · · · · · · · · · · · · · · · ·	•		-	-	-	-	
	10x/0.25, W.D.17.9mm	•		-	-	-	-	A52.1045-10
NIS45	20x/0.40, W.D.6.40mm	0	0	-	-	-	-	A52.1045-20
Infinity Plan	40x/0.60, W.D.1.50mm	•	•	-	-	-	-	A52.1045-40
Objective	60x/0.80, W.D.0.30mm	0	0	-	-	-	-	A52.1045-60
•	100x/1.25(Oil), W.D.0.16mm	•	•	-	-	-	-	A52.1045-100
	100x/1.10(Water), W.D.0.16mm	0	0	-	-	-	-	A52.1045- 100W

	4x/0.10, W.D.30.0mm	-	_	•	•	•	•	A52.1060-4
	10x/0.25, W.D.10.2mm	-	-	•	•	•	•	A52.1060-10
NIS60	20x/0.40, W.D.4.8mm	-	_	0	0	0	0	A52.1060-20
Infinity Plan	40x/0.65, W.D.1.5mm	_	_	•	•	•	•	A52.1060-40
Objective	60x/0.80, W.D.0.30mm			•	0	0	•	A52.1060-40
Objective	100x/1.25(Oil), W.D.0.3mm	_	_	•	•	•	•	A52.1060-00
	100x/1.10(Water), W.D.0.2mm	_	-	0	0	0	•	A52.1060-100
NIS60	10x/0.25, W.D.10.2mm	-		0	0	0	-	A5C.1060-10
		-	-				0	
Infinity Plan Phase	20x/0.40, W.D.12.0mm	-	-	0	0	0	0	A5C.1060-20
Contrast	40x/0.65, W.D.0.7mm	-	-	0	0	0	0	A5C.1060-40
Objective	100x/1.25(Oil), W.D.0.2mm	-	-	0	0	0	0	A5C.1060-100
	Coaxial Coarse & Fine Adjustment, Tension							
Focusing	Adjustable, Fine Division 0.002mm, Coarse	•	•	•	•	•	•	
	Focusing Range 28mm							
	Double Layer Mechanical Rackless Stage,	•		_	_	_	_	
	Size 230x150mm, Moving Range 78x54mm	•						
Working Stage	Double Layer Mechanical Rackless Stage,							
working otage	Size 230x150mm, Moving Range	_	_					
	78x54mm, Anti-Scratch Hard Coating Dural	-	-	-	-		•	
	Platform							
	Inserted Abbe Condenser N.A. 1.25, With							
Condenser	Slot For Phase Contrast Slide And Dark	•	•	•	•	•	•	
	Field Slide.							
	1W S-LED Critical Illumination	•	•	-	-	-	-	
Illumination	3W S-LED Kohler Illumination	-	-	•	•	•	•	
	Green Filter	•	•	•	•	•	•	
Dark Field	Dark Field Slide	0	0	0	0	0	0	A5D.1062
Polarizing	Simple Polarizing Set	0	0	0	0	0	0	A5P.1008
Phase	Phase Slider For 10x-40x	0	0	0	0	0	0	A5C.1062- S1040
Contrast	Phase Slider For 100x	0	0	0	0	0	0	A5C.1062-S100
	3W LED Epi-Fluorescence Attachment, Fly-	-					-	
	Eye Lens Illumination, With 2 Filter Position							
Epi-	+ Bright Field Position, Switch Quickly, With	0	0	0	0	•	•	A5F.1062
Fluorescence	Attachable UV Shield,			-	-			
Attachment	B, G Filters							
	Filter U	0	0	0	0	0	0	A5F.1062-U
	Filter V	0	0	0	0	0	0	A5F.1062-V
	1.0x C-Mount	0	0	0	0	0	0	A55.1062-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	0	0	A55.1062-0.5
 	AC 100-240V,50/60Hz	•	•	•	•	•	•	,
	USB Charging Port, Support To Use	•	-	-	-		-	
Power Supply	Exeternal Rechargeable Battery Power	-	_	-	-	_	-	
	Bank Like Mobile Phone Out Door Freely	•		-	-		•	
	LCD Screen On Front Of Body, Display							
	Using State Of Microscope, Including			_	_	_	-	
LCD Screen	Magnification, Light Intensity, Standby	-	-	•	•	•	•	
	Status, Set Power Off Timer 5 Mins to 8							
	Hours, And So On.							
Dimensions	220(W)x290(D)x472(H) mm	•	•	•	•	•	•	
Note:" <ul><li>"In Tab</li></ul>	le Is Standard Outfits," o" Is Optional Accesso	ories "-	·" Is Uı	navaila	able			

### A31.1062 Digital WIFI Laboratory Microscope, 5.0M







Brand New Design 5.0M WIFI + USB2.0 Digital Laboratory Research Microscope Coding Quintuple Nosepiece LCD Screen Base With Brightness Memory Function Large Rackless Safty Working Stage 230x150mm, Moving Range 78x54mm Infinity Plan NIS60 Objective 4x10x40x100x, Water 100x Immersion Available Upgradeable To Dark Field, Polarizing, Phase Contrast & Fluorescent Function





	A31.1062 Digital WIFI Laboratory Microscope, 5.0M	A31. 5.0M	1062 5.0W	Cata. No.
Optical System	NIS Infinite Optical System	•	•	
	Bright Field	•	•	
Observation	Dark Field	0	0	
Method	Phase Contrast	0	0	
	Epi-Fluorscence	•	•	
	Polarizing	0	0	
	Seidentopf Binocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm	•		A53.1061-B
	Seidentopf Trinocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Fixed 50:50		•	A53.1061-T
	Seidentopf Trinocular Head, Inclined At 30°, Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Switchable 0:100/100:0	0	0	A53.1061-TS
Head	Tilting Binocular Head, Inclined 5°~35°, Interpupillary Distance 47- 78mm, Eyepiece Tube Dia.30mm	0	0	A53.1061-BS
	Digital Head, Built-in Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time	•		A53.1061-5.0M
	Digital Head, Built-in Wireless Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time	,	•	A53.1061-
	App Software, By Scanning QR Code On Microscope, Installing App & Identifying Microscope, You Can View Micro Image On Mobile Phone & Tablet.			5.0W
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	A51.1029-1022
Eyepiece	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	A51.1029-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	A51.1029-2012
Noconioco	Quintuple Nosepiece, Dovetail Interface	-	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	•	•	

	4x/0.10, W.D.20.6mm	-	-	A52.1045-4
	10x/0.25, W.D.17.9mm	-	-	A52.1045-10
	20x/0.40, W.D.6.40mm	-	-	A52.1045-20
NIS45 Infinity Plan	40x/0.60, W.D.1.50mm	-	-	A52.1045-40
Objective	60x/0.80, W.D.0.30mm	-	-	A52.1045-60
	100x/1.25(Oil), W.D.0.16mm	-	-	A52.1045-100
	100x/1.10(Water), W.D.0.16mm	-	-	A52.1045- 100W
	4x/0.10, W.D.30.0mm	•	•	A52.1060-4
	10x/0.25, W.D.10.2mm	•	•	A52.1060-10
	20x/0.40, W.D.4.8mm	0	0	A52.1060-20
NIS60	40x/0.65, W.D.1.5mm	•	•	A52.1060-40
Infinity Plan Objective	60x/0.80, W.D.0.30mm	0	0	A52.1060-60
	100x/1.25(Oil), W.D.0.3mm	•	•	A52.1060-100
			-	A52.1060-
	100x/1.10(Water), W.D.0.2mm	0	0	100W
NIS60	10x/0.25, W.D.10.2mm	0	0	A5C.1060-10
Infinity Plan	20x/0.40, W.D.12.0mm	0	0	A5C.1060-20
Phase Contrast	40x/0.65, W.D.0.7mm	0	0	A5C.1060-40
Objective	100x/1.25(Oil), W.D.0.2mm	0	0	A5C.1060-100
Focusing	Coaxial Coarse & Fine Adjustment, Tension Adjustable, Fine Division 0.002mm, Coarse Focusing Range 28mm	•	•	
	Double Layer Mechanical Rackless Stage, Size 230x150mm, Moving Range 78x54mm	-	-	
Working Stage	Double Layer Mechanical Rackless Stage, Size 230x150mm, Moving Range 78x54mm, Anti-Scratch Hard Coating Dural Platform	•	•	
Condenser	Inserted Abbe Condenser N.A. 1.25, With Slot For Phase Contrast Slide And Dark Field Slide.	•	•	
	1W S-LED Critical Illumination	-	-	
Illumination	3W S-LED Kohler Illumination	•	•	
	Green Filter	•	•	
Dark Field	Dark Field Slide	0	0	A5D.1062
Polarizing	Simple Polarizing Set	0	0	A5P.1008
g				A5C.1062-
Phase Contrast	Phase Slider For 10x-40x	0	0	S1040
	Phase Slider For 100x	0	0	A5C.1062- S100
Epi- Fluorescence	3W LED Epi-Fluorescence Attachment, Fly-Eye Lens Illumination, With 2 Filter Position + Bright Field Position, Switch Quickly, With Attachable UV Shield, B, G Filters	•	•	A5F.1062
Attachment	Filter U	0	0	A5F.1062-U
	Filter V	0	0	A5F.1062-V
Photo Adapter	1.0x C-Mount	0	0	A55.1062-1.0
	0.5x C-Mount AC 100-240V,50/60Hz	0	•	A55.1062-0.5
Power Supply	USB Charging Port, Support To Use Exeternal Rechargeable Battery	•	•	
	Power Bank Like Mobile Phone Out Door Freely	•	•	
LCD Screen	LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, Set Power Off Timer 5 Mins to 8 Hours, And So On.		•	
Dimensions	220(W)x290(D)x472(H) mm			

# A14.1063

**Inverted Biological Phase Contrast Microscope** 

#### OPTO-EDU



Brand New Design 2019 High Level Inverted Laboratory Microscope Super Long Working Distance Upto 187mm Condenser ECO Auto Power Off Function + LCD Screen Available Phase Contrast, Hoffman Contrast, Emboss Contrast (DIC) Optional Upgradeable To Fluorescent Research Microscope A16.1063

#### **Intelligent Operating System**

#### **Objective Coding Converter**

It Can Memorize The Illumination Brightness When Using Each Objective. When Different Objectives Are Converted To Each Other, The Light Intensity Is Automatically Adjusted To Reduce Visual Fatigue And Improve Work Efficiency.



	A14.1063	A14.1064					
Observation	Bright Field, Phase Contrast, Hoffman Phase Contrast, DIC Emboss Contrast						
Nosepiece	Quintuple	Coded Quintuple					
Illumination	3W LED	3W LED Kohler					
LCD		Yes					
ECO		Yes, 15 Mins Auto Off					



	04 Inverted Biological Microscope, 64 Inverted LED Fluorescent Microscope	A14. 1063	A14. 1064	A16. 1063	A16. 1064	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	•	•	
	Bright Field,	•	•	•	•	
	Phase Contrast	•	•	0	0	
Observation	Epi-Fluorscence	0	0	•	•	
Method	DIC 3D Emboss Contrast	0	0	0	0	
	Hoffman Phase Contrast	0	0	0	0	
	Seidentopf Viewing Head, Inclined At 45°,					
Head	Interpupillary Distance 48-75mm, Eyepiece Tube	•	•	•	•	
	Dia.30mm					
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	A51.1030-1022
Eyepiece / F.O.V	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-2012
Neensiens	Quintuple Nosepiece, Dovetail Interface	•	-	•	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	•	-	•	
	4x/0.10, W.D.30.0mm	•	•	0	0	A5M.1032-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	0	0	0	0	A5M.1032-10
Objective	20x/0.40, W.D.12.0mm	0	0	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	0	0	A5M.1032-40
	4x/0.10, W.D.30.0mm	0	0	0	0	A5C.1038-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	•	•	0	0	A5C.1038-10
Phase Contrast	20x/0.40, W.D.12.0mm	•	•	0	0	A5C.1038-20
Objective	40x/0.60, W.D.2.20mm	•	•	0	0	A5C.1038-40
	4x/0.13, W.D.17.0mm	0	0	0	0	A5C.1039-4
	10x/0.3, W.D.7.4mm	0	0	0	0	A5C.1039-10
LWD Infinity Plan	20x/0.45, W.D.8.0mm	0	0	0	0	A5C.1039-20
Semi-APO	40x/0.60, W.D.3.6mm	0	0	0	0	A5C.1039-40
Phase Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	0	0	A5C.1040-20
Objective	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	0	0	A5C.1040-60
	4x/0.13, W.D.17.0mm, Cover Glass -	-	-	•	•	A5F.1032-4
LWD Infinity Plan	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-10
Semi-APO	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-20
Fluorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	0	0	A5F.1032-60
	Coaxial Coarse & Fine Adjustment, Tension					//01.1002.00
	Adjustable (At Right Hand), Fine Division 0.002mm,					
Focusing System	Coarse Focusing Range Up 7mm, Down 1.5mm,	•	•	•	•	
	Max Up To 18.5mm After Removing Focusing Limit.					
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial				-	
	Moving 128x80mm	•	•	•	•	A54.1063-XY
	Stage Clip	•	•	•	•	A54.1063-SC
	Well Clamper For Well Plate					A54.1063-WC
	Glass Stage Plate					A54.1063-WC
	Metal Stage Plate For Culture Bottle	0	0	0	0	A54.1063-M
Working Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	•		A54.1063-M
	Universal Holder	•		•	•	A54.1063-A
	Terasaki Holder	0	0	0	0	
			-	-		A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	0	0	A54.1063-90

Condenser	Long Working Distance Detachable Condenser NA 0.3, W.D.75mm, Without Condenser W.D.187mm	•	•	•	•	
	Transmitted Illumination 3W S-LED Critical Illumination	•	-	•	-	
Illumination	Transmitted Illumination 3W S-LED Kohler	_		_	•	
murrination	Illumination		•			
	Reflected Illumination 3W LED, For Epi-	0	0	•	•	
	Fluorescence					
	Centering Telescope 10x, Tube Dia. 30mm	•	•	0	0	A5C.1063-T
Phase Contrast	Phase Slider For 4x//10x-20x-40x	•	•	0	0	A5C.1063-S
Filase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	0	0	A5C.1063-APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	0	0	A5C.1063-APOS2
Emboss Contrast	Emboss Contrast Slider For 10x-20x-40x	0	0	0	0	A5C.1063-DIC
DIC	Universal Emboss Contrast Plate For 10x-20x-40x					A3C.1003-DIC
Hoffman Phase	Hoffman Phase Contrast Set: Hoffman Phase Contrast Condenser, With Polarizer,					
Contrast	Hoffman Phase Contrast Objective 10x, 20x, 40x Hoffman Phase Slider For 10x, 20x, 40x	0	0	0	0	A5C.1064
	Centering Telescope 10x, Tube Dia. 30mm					
	Epi-Fluorescence Attachment, Turret With 3 Holes					
	For Filter Cubes, With Noise Terminator	0	0	•	•	
	Mechanism, With Attachable UV Shield					
	Filter Cube B + LED Unit, 365nm	0	0	•	•	A5F.1063-B
Epi-Fluorescence	Filter Cube G + LED Unit, 405nm	0	0	•	•	A5F.1063-G
Attachment	Filter Cube U + LED Unit, 485nm	0	0	•	•	A5F.1063-U
	Filter Cube V + LED Unit, 525nm	0	0	0	0	A5F.1063-V
	Filter Cube FITC					A5F.1063-FITC
	Filter Cube DAPI					A5F.1063-DAPI
	Filter Cube TRITC					A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	•	•	
	1.0x C-Mount	•	•	•	•	A55.1063-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	A55.1063-0.5
·	0.7x C-Mount	0	0	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	•	•	
ECO Function	Auto Power Off 15 Minutes After No Operator Working	0	-	0	-	
	LCD Screen On Front Of Body, Display Using State					
	Of Microscope, Including Magnification, Light		_		_	
LCD Screen	Intensity, Standby Status, ECO Set Power Off	-	•	-	•	
	Timer 5 Mins to 8 Hours, And So On.					
Dimensions	244(W)x543(D)x526(H) mm	•	•	•	•	
	s Standard Outfits,"o" Is Optional Accessories "-" Is I	Inava	ailahlu	 ڊ		

# A14.1064

**Inverted Biological Phase Contrast Microscope** 

#### OPTO-EDU



Brand New Design 2019 High Level Inverted Laboratory Microscope Super Long Working Distance Upto 187mm Condenser ECO Auto Power Off Function + LCD Screen Available Phase Contrast, Hoffman Contrast, Emboss Contrast (DIC) Optional Upgradeable To Fluorescent Research Microscope A16.1064

#### **Intelligent Operating System**

#### **Objective Coding Converter**

It Can Memorize The Illumination Brightness When Using Each Objective. When Different Objectives Are Converted To Each Other, The Light Intensity Is Automatically Adjusted To Reduce Visual Fatigue And Improve Work Efficiency.



	A14.1063	A14.1064					
Observation	Bright Field, Phase Contrast, Hoffman Phase Contrast, DIC Emboss Contrast						
Nosepiece	Quintuple	Coded Quintuple					
Illumination	3W LED	3W LED Kohler					
LCD		Yes					
ECO		Yes, 15 Mins Auto O					



	04 Inverted Biological Microscope, 64 Inverted LED Fluorescent Microscope	A14. 1063	A14. 1064	A16. 1063	A16. 1064	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	•	•	
Observation Method	Bright Field,	•	•	•	•	
	Phase Contrast	•	•	0	0	
	Epi-Fluorscence	0	0	•	•	
	DIC 3D Emboss Contrast	0	0	0	0	
	Hoffman Phase Contrast	0	0	0	0	
	Seidentopf Viewing Head, Inclined At 45°,					
Head	Interpupillary Distance 48-75mm, Eyepiece Tube	•	•	•	•	
	Dia.30mm					
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	A51.1030-1022
Eyepiece / F.O.V	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-2012
Necesiese	Quintuple Nosepiece, Dovetail Interface	•	-	•	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	•	-	•	
	4x/0.10, W.D.30.0mm	•	•	0	0	A5M.1032-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	0	0	0	0	A5M.1032-10
Objective	20x/0.40, W.D.12.0mm	0	0	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	0	0	A5M.1032-40
	4x/0.10, W.D.30.0mm	0	0	0	0	A5C.1038-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	•	•	0	0	A5C.1038-10
Phase Contrast	20x/0.40, W.D.12.0mm	•	•	0	0	A5C.1038-20
Objective	40x/0.60, W.D.2.20mm	•	•	0	0	A5C.1038-40
	4x/0.13, W.D.17.0mm	0	0	0	0	A5C.1039-4
	10x/0.3, W.D.7.4mm	0	0	0	0	A5C.1039-10
LWD Infinity Plan	20x/0.45, W.D.8.0mm	0	0	0	0	A5C.1039-20
Semi-APO	40x/0.60, W.D.3.6mm	0	0	0	0	A5C.1039-40
Phase Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	0	0	A5C.1040-20
Objective	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	0	0	A5C.1040-60
	4x/0.13, W.D.17.0mm, Cover Glass -	-	-	•	•	A5F.1032-4
LWD Infinity Plan	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-10
Semi-APO	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-20
Fluorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	0	0	A5F.1032-60
	Coaxial Coarse & Fine Adjustment, Tension					//01.1002.00
	Adjustable (At Right Hand), Fine Division 0.002mm,					
Focusing System	Coarse Focusing Range Up 7mm, Down 1.5mm,	•	•	•	•	
	Max Up To 18.5mm After Removing Focusing Limit.					
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial				-	
	Moving 128x80mm	•	•	•	•	A54.1063-XY
	Stage Clip	•	•	•	•	A54.1063-SC
	Well Clamper For Well Plate					A54.1063-WC
	Glass Stage Plate					A54.1063-WC
	Metal Stage Plate For Culture Bottle	0	0	0	0	A54.1063-M
Working Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	•		A54.1063-M
	Universal Holder	•		•	•	A54.1063-A
	Terasaki Holder	0	0	0	-	
			-	-	0	A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	0	0	A54.1063-90

Condenser	Long Working Distance Detachable Condenser NA 0.3, W.D.75mm, Without Condenser W.D.187mm	•	•	•	•	
	Transmitted Illumination 3W S-LED Critical Illumination	•	-	•	-	
Illumination	Transmitted Illumination 3W S-LED Kohler	_		_	•	
murrination	Illumination		•			
	Reflected Illumination 3W LED, For Epi-	0	0	•	•	
	Fluorescence					
	Centering Telescope 10x, Tube Dia. 30mm	•	•	0	0	A5C.1063-T
Phase Contrast	Phase Slider For 4x//10x-20x-40x	•	•	0	0	A5C.1063-S
Filase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	0	0	A5C.1063-APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	0	0	A5C.1063-APOS2
Emboss Contrast	Emboss Contrast Slider For 10x-20x-40x	0	0	0	0	A5C.1063-DIC
DIC	Universal Emboss Contrast Plate For 10x-20x-40x					A3C.1003-DIC
Hoffman Phase	Hoffman Phase Contrast Set: Hoffman Phase Contrast Condenser, With Polarizer,					
Contrast	Hoffman Phase Contrast Objective 10x, 20x, 40x Hoffman Phase Slider For 10x, 20x, 40x	0	0	0	0	A5C.1064
	Centering Telescope 10x, Tube Dia. 30mm					
	Epi-Fluorescence Attachment, Turret With 3 Holes					
	For Filter Cubes, With Noise Terminator	0	0	•	•	
	Mechanism, With Attachable UV Shield					
	Filter Cube B + LED Unit, 365nm	0	0	•	•	A5F.1063-B
Epi-Fluorescence	Filter Cube G + LED Unit, 405nm	0	0	•	•	A5F.1063-G
Attachment	Filter Cube U + LED Unit, 485nm	0	0	•	•	A5F.1063-U
	Filter Cube V + LED Unit, 525nm	0	0	0	0	A5F.1063-V
	Filter Cube FITC					A5F.1063-FITC
	Filter Cube DAPI					A5F.1063-DAPI
	Filter Cube TRITC					A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	•	•	
	1.0x C-Mount	•	•	•	•	A55.1063-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	A55.1063-0.5
	0.7x C-Mount	0	0	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	•	•	
ECO Function	Auto Power Off 15 Minutes After No Operator Working	0	-	0	-	
LCD Screen	LCD Screen On Front Of Body, Display Using State					
	Of Microscope, Including Magnification, Light		_		_	
	Intensity, Standby Status, ECO Set Power Off	-	•	-	•	
	Timer 5 Mins to 8 Hours, And So On.					
Dimensions	244(W)x543(D)x526(H) mm	•	•	•	•	
	s Standard Outfits,"o" Is Optional Accessories "-" Is I	Inava	ailahlu	 ڊ		-

### A14.1065 Inverted Biological Phase Contrast Microscope





Brand New Design 2019 High Level Inverted Laboratory Microscope Super Long Working Distance Upto 187mm Condenser Coded 5 Holes Nospiece With LCD Screen And Auto Brightness Adjust Function Phase Contrast, Hoffman Contrast, Emboss Contrast (DIC) Optional Upgradeable To Fluorescent Research Microscope A16.1064

OPTO-EDU

A14.1065 Inverted Biological Microscope, A16.1065 Inverted LED Fluorescent Microscope		A14.1065	A16.1065	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	
Observation Method	Bright Field,	•	•	
	Phase Contrast	•	0	
	Epi-Fluorscence	0	•	
	DIC 3D Emboss Contrast	0	0	
	Hoffman Phase Contrast	0	0	
Head	Tilting Seidentopf Binocular Head, Incline 0-45° Adjustable, Interpupillary Distance 48-75mm, Eyepiece Tube Dia.30mm	•	•	
Eyepiece / F.O.V	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	A51.1030-1022
	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	A51.1030-2012

Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	•	•	
	4x/0.10, W.D.30.0mm	•	0	A5M.1032-4
LWD Infinity	10x/0.25, W.D.10.2mm	0	0	A5M.1032-10
Plan	20x/0.40, W.D.12.0mm	0	0	A5M.1032-20
Objective	40x/0.60, W.D.2.20mm	0	0	A5M.1032-40
LWD Infinity	4x/0.10, W.D.30.0mm	0	0	A5C.1038-4
Plan	10x/0.25, W.D.10.2mm	•	0	A5C.1038-10
	20x/0.40, W.D.12.0mm	•	0	A5C.1038-20
Contrast	20X/0.40, W.D.12.00000	•	0	AJC.1030-20
Objective	40x/0.60, W.D.2.20mm	•	0	A5C.1038-40
LWD Infinity	4x/0.13, W.D.17.0mm	0	0	A5C.1039-4
Plan	10x/0.3, W.D.7.4mm	0	0	A5C.1039-10
Semi-APO	20x/0.45, W.D.8.0mm	0	0	A5C.1039-20
Phase	40x/0.60, W.D.3.6mm	0	0	A5C.1039-40
Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	A5C.1040-20
	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	A5C.1040-40
Objective	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	A5C.1040-60
LWD Infinity	4x/0.13, W.D.17.0mm, Cover Glass -	-	•	A5F.1032-4
Plan	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	•	A5F.1032-10
Semi-APO	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	•	A5F.1032-20
Fluorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	A5F.1032-60
Objective	Coaxial Coarse & Fine Adjustment, Tension Adjustable (At	0		7.01.1002.00
Focusing	Right Hand), Fine Division 0.002mm, Coarse Focusing			
System	Range Up 7mm, Down 1.5mm, Max Up To 18.5mm After	•	•	
System	•			
	Removing Focusing Limit.	-	-	
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial Moving 128x80mm	•	•	A54.1063-XY
	Stage Clip	•	•	A54.1063-SC
	Well Clamper For Well Plate	•	•	A54.1063-WC
	Glass Stage Plate	•	•	A54.1063-G
Working	Metal Stage Plate For Culture Bottle	0	0	A54.1063-M
Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	A54.1063-A
	Universal Holder	•	•	A54.1063-U
	Terasaki Holder	0	0	A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder			A54.1063-65
		0	0	
	Dia.90mm Petri Dish Holder	0	0	A54.1063-90
Condenser	Long Working Distance Detachable Condenser NA	•	•	
	0.3, W.D.75mm, Without Condenser W.D.187mm			1-0 (000 T
	Centering Telescope 10x, Tube Dia. 30mm	•	0	A5C.1063-T
	Phase Slider For 4x//10x-20x-40x	•	0	A5C.1063-S
Phase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	A5C.1063- APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	A5C.1063- APOS2
Emboss	Emboss Contrast Slider For 10x-20x-40x			
	Universal Emboss Contrast Plate For 10x-20x-40x	0	0	A5C.1063-DIC
Contrast DIC				
	Hoffman Phase Contrast Set:			
Hoffman	Hoffman Phase Contrast Condenser, With Polarizer,			450 4004
Phase	Hoffman Phase Contrast Objective 10x, 20x, 40x	0	0	A5C.1064
Contrast	Hoffman Phase Slider For 10x, 20x, 40x			
	Centering Telescope 10x, Tube Dia. 30mm			
	Epi-Fluorescence Attachment, Turret With 3 Holes For Filter			
Epi- Fluorescence	Cubes, With Noise Terminator Mechanism, With Attachable	0	•	
Attachment	Filter Cube B + LED Unit, 365nm	0	•	A5F.1063-B
	Filter Cube G + LED Unit, 405nm	0	•	A5F.1063-G
		0	-	AJI . 1003-G

	Filter Cube U + LED Unit, 485nm	0	•	A5F.1063-U
Epi-	Filter Cube V + LED Unit, 525nm	0	0	A5F.1063-V
	Filter Cube FITC	0	0	A5F.1063-FITC
	Filter Cube DAPI	0	0	A5F.1063- DAPI
	Filter Cube TRITC	0	0	A5F.1063- TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	
Dhoto	1.0x C-Mount	•	•	A55.1063-1.0
Photo	0.5x C-Mount	0	0	A55.1063-0.5
Adapter	0.7x C-Mount	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	
	LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, ECO Set Power Off Timer 5 Mins to 8 Hours, And So On.	•	•	
Dimensions	244(W)x543(D)x526(H) mm	•	•	
Note:"•"In Tal	ble Is Standard Outfits, "o" Is Optional Accessories "-" Is Unava	ailable		

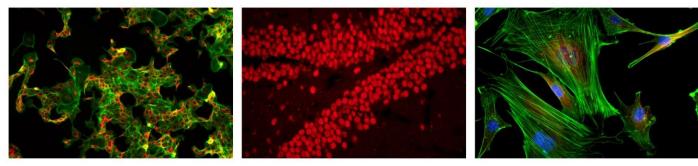
## A16.1063 Inverted LED Fluorescent Microscope, B,G



Brand New Design 2019 High Level Inverted Fluorescent Microscope Epi-Fluorescence Attachment, Turret With 3 Holes For Filter Cubes, With Noise Terminator Mechanism Super Long Working Distance Upto 187mm Condenser ECO Auto Power Off Function + LCD Screen Available Upgradeable To Fluorescent Research Microscope A16.1063

#### **Suitable For A Variety Of Fluorescent Dyes**

Equipped With 3 Fluorescent Filter Blocks, It Provides A Wide Range Of Choice Of Dyes And Capture Clear High Contrast Fluorescence Images.



Breast Cancer

Hippocampus

HC3T3 Mouse Brain Nerve Cells

	04 Inverted Biological Microscope, 64 Inverted LED Fluorescent Microscope	A14. 1063	A14. 1064	A16. 1063	A16. 1064	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	•	•	
	Bright Field,	•	•	•	•	
	Phase Contrast	•	•	0	0	
Observation	Epi-Fluorscence	0	0	•	•	
Method	DIC 3D Emboss Contrast	0	0	0	0	
	Hoffman Phase Contrast	0	0	0	0	
	Seidentopf Viewing Head, Inclined At 45°,					
Head	Interpupillary Distance 48-75mm, Eyepiece Tube	•	•	•	•	
	Dia.30mm					
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	A51.1030-1022
Eyepiece / F.O.V	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-2012
Neensiens	Quintuple Nosepiece, Dovetail Interface	•	-	•	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	•	-	•	
	4x/0.10, W.D.30.0mm	•	•	0	0	A5M.1032-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	0	0	0	0	A5M.1032-10
Objective	20x/0.40, W.D.12.0mm	0	0	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	0	0	A5M.1032-40
	4x/0.10, W.D.30.0mm	0	0	0	0	A5C.1038-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	•	•	0	0	A5C.1038-10
Phase Contrast	20x/0.40, W.D.12.0mm	•	•	0	0	A5C.1038-20
Objective	40x/0.60, W.D.2.20mm	•	•	0	0	A5C.1038-40
	4x/0.13, W.D.17.0mm	0	0	0	0	A5C.1039-4
	10x/0.3, W.D.7.4mm	0	0	0	0	A5C.1039-10
LWD Infinity Plan	20x/0.45, W.D.8.0mm	0	0	0	0	A5C.1039-20
Semi-APO	40x/0.60, W.D.3.6mm	0	0	0	0	A5C.1039-40
Phase Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	0	0	A5C.1040-20
Objective	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	0	0	A5C.1040-60
	4x/0.13, W.D.17.0mm, Cover Glass -	-	-	•	•	A5F.1032-4
LWD Infinity Plan	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-10
Semi-APO	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-20
Fluorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	0	0	A5F.1032-60
	Coaxial Coarse & Fine Adjustment, Tension					//01.1002.00
	Adjustable (At Right Hand), Fine Division 0.002mm,					
Focusing System	Coarse Focusing Range Up 7mm, Down 1.5mm,	•	•	•	•	
	Max Up To 18.5mm After Removing Focusing Limit.					
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial				-	
	Moving 128x80mm	•	•	•	•	A54.1063-XY
	Stage Clip	•	•	•	•	A54.1063-SC
	Well Clamper For Well Plate					A54.1063-WC
	Glass Stage Plate					A54.1063-WC
	Metal Stage Plate For Culture Bottle	0	0	0	0	A54.1063-M
Working Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	•		A54.1063-M
	Universal Holder	•		•	•	A54.1063-A
	Terasaki Holder	0	0	0	0	
			-	-		A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	0	0	A54.1063-90

Condenser	Long Working Distance Detachable Condenser NA 0.3, W.D.75mm, Without Condenser W.D.187mm	•	•	•	•	
	Transmitted Illumination 3W S-LED Critical Illumination	•	-	•	-	
Illumination	Transmitted Illumination 3W S-LED Kohler	_		_	•	
murrination	Illumination		•			
	Reflected Illumination 3W LED, For Epi-	0	0	•	•	
	Fluorescence					
	Centering Telescope 10x, Tube Dia. 30mm	•	•	0	0	A5C.1063-T
Phase Contrast	Phase Slider For 4x//10x-20x-40x	•	•	0	0	A5C.1063-S
Filase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	0	0	A5C.1063-APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	0	0	A5C.1063-APOS2
Emboss Contrast	Emboss Contrast Slider For 10x-20x-40x	0	0	0	0	A5C.1063-DIC
DIC	Universal Emboss Contrast Plate For 10x-20x-40x					A3C.1003-DIC
Hoffman Phase	Hoffman Phase Contrast Set: Hoffman Phase Contrast Condenser, With Polarizer,					
Contrast	Hoffman Phase Contrast Objective 10x, 20x, 40x Hoffman Phase Slider For 10x, 20x, 40x	0	0	0	0	A5C.1064
	Centering Telescope 10x, Tube Dia. 30mm					
	Epi-Fluorescence Attachment, Turret With 3 Holes					
	For Filter Cubes, With Noise Terminator	0	0	•	•	
	Mechanism, With Attachable UV Shield					
	Filter Cube B + LED Unit, 365nm	0	0	•	•	A5F.1063-B
Epi-Fluorescence	Filter Cube G + LED Unit, 405nm	0	0	•	•	A5F.1063-G
Attachment	Filter Cube U + LED Unit, 485nm	0	0	•	•	A5F.1063-U
	Filter Cube V + LED Unit, 525nm	0	0	0	0	A5F.1063-V
	Filter Cube FITC					A5F.1063-FITC
	Filter Cube DAPI					A5F.1063-DAPI
	Filter Cube TRITC					A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	•	•	
	1.0x C-Mount	•	•	•	•	A55.1063-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	A55.1063-0.5
·	0.7x C-Mount	0	0	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	•	•	
ECO Function	Auto Power Off 15 Minutes After No Operator Working	0	-	0	-	
	LCD Screen On Front Of Body, Display Using State					
	Of Microscope, Including Magnification, Light		_		_	
LCD Screen	Intensity, Standby Status, ECO Set Power Off	-	•	-	•	
	Timer 5 Mins to 8 Hours, And So On.					
Dimensions	244(W)x543(D)x526(H) mm	•	•	•	•	
	s Standard Outfits,"o" Is Optional Accessories "-" Is I	Inava	ailahlu	 ڊ		-

## A16.1064 Inverted LED Fluorescent Microscope, B,G

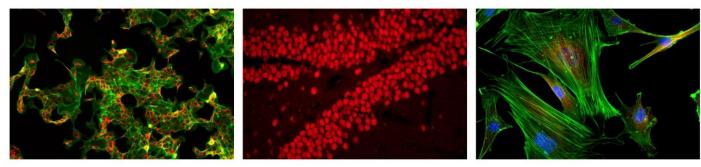
**OPTO-EDU** 



Brand New Design 2019 High Level Inverted Fluorescent Microscope Epi-Fluorescence Attachment, Turret With 3 Holes For Filter Cubes, With Noise Terminator Mechanism Super Long Working Distance Upto 187mm Condenser ECO Auto Power Off Function + LCD Screen Available Upgradeable To Fluorescent Research Microscope A16.1063

#### **Suitable For A Variety Of Fluorescent Dyes**

Equipped With 3 Fluorescent Filter Blocks, It Provides A Wide Range Of Choice Of Dyes And Capture Clear High Contrast Fluorescence Images.



Breast Cancer

Hippocampus



	04 Inverted Biological Microscope, 64 Inverted LED Fluorescent Microscope	A14. 1063	A14. 1064	A16. 1063	A16. 1064	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	•	•	
	Bright Field,	•	•	•	•	
	Phase Contrast	•	•	0	0	
Observation	Epi-Fluorscence	0	0	•	•	
Method	DIC 3D Emboss Contrast	0	0	0	0	
	Hoffman Phase Contrast	0	0	0	0	
	Seidentopf Viewing Head, Inclined At 45°,					
Head	Interpupillary Distance 48-75mm, Eyepiece Tube	•	•	•	•	
	Dia.30mm					
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	A51.1030-1022
Eyepiece / F.O.V	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-2012
Neensiens	Quintuple Nosepiece, Dovetail Interface	•	-	•	-	
Nosepiece	Coded Quintuple Nosepiece, Dovetail Interface	-	•	-	•	
	4x/0.10, W.D.30.0mm	•	•	0	0	A5M.1032-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	0	0	0	0	A5M.1032-10
Objective	20x/0.40, W.D.12.0mm	0	0	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	0	0	A5M.1032-40
	4x/0.10, W.D.30.0mm	0	0	0	0	A5C.1038-4
LWD Infinity Plan	10x/0.25, W.D.10.2mm	•	•	0	0	A5C.1038-10
Phase Contrast	20x/0.40, W.D.12.0mm	•	•	0	0	A5C.1038-20
Objective	40x/0.60, W.D.2.20mm	•	•	0	0	A5C.1038-40
	4x/0.13, W.D.17.0mm	0	0	0	0	A5C.1039-4
	10x/0.3, W.D.7.4mm	0	0	0	0	A5C.1039-10
LWD Infinity Plan	20x/0.45, W.D.8.0mm	0	0	0	0	A5C.1039-20
Semi-APO	40x/0.60, W.D.3.6mm	0	0	0	0	A5C.1039-40
Phase Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	0	0	A5C.1040-20
Objective	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	0	0	A5C.1040-60
	4x/0.13, W.D.17.0mm, Cover Glass -	-	-	•	•	A5F.1032-4
LWD Infinity Plan	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-10
Semi-APO	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-20
Fluorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	0	0	A5F.1032-60
	Coaxial Coarse & Fine Adjustment, Tension					//01.1002.00
	Adjustable (At Right Hand), Fine Division 0.002mm,					
Focusing System	Coarse Focusing Range Up 7mm, Down 1.5mm,	•	•	•	•	
	Max Up To 18.5mm After Removing Focusing Limit.					
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial				-	
	Moving 128x80mm	•	•	•	•	A54.1063-XY
	Stage Clip	•	•	•	•	A54.1063-SC
	Well Clamper For Well Plate					A54.1063-WC
	Glass Stage Plate					A54.1063-WC
	Metal Stage Plate For Culture Bottle	0	0	0	0	A54.1063-M
Working Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	•		A54.1063-M
	Universal Holder	•		•	•	A54.1063-A
	Terasaki Holder	0	0	0	0	
			-	-		A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	0	0	A54.1063-90

Condenser	Long Working Distance Detachable Condenser NA 0.3, W.D.75mm, Without Condenser W.D.187mm	•	•	•	•	
	Transmitted Illumination 3W S-LED Critical Illumination	•	-	•	-	
Illumination	Transmitted Illumination 3W S-LED Kohler	_		_	•	
murrination	Illumination		•			
	Reflected Illumination 3W LED, For Epi-	0	0	•	•	
	Fluorescence					
	Centering Telescope 10x, Tube Dia. 30mm	•	•	0	0	A5C.1063-T
Phase Contrast	Phase Slider For 4x//10x-20x-40x	•	•	0	0	A5C.1063-S
Filase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	0	0	A5C.1063-APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	0	0	A5C.1063-APOS2
Emboss Contrast	Emboss Contrast Slider For 10x-20x-40x	0	0	0	0	A5C.1063-DIC
DIC	Universal Emboss Contrast Plate For 10x-20x-40x					A3C.1003-DIC
Hoffman Phase	Hoffman Phase Contrast Set: Hoffman Phase Contrast Condenser, With Polarizer,					
Contrast	Hoffman Phase Contrast Objective 10x, 20x, 40x Hoffman Phase Slider For 10x, 20x, 40x	0	0	0	0	A5C.1064
	Centering Telescope 10x, Tube Dia. 30mm					
	Epi-Fluorescence Attachment, Turret With 3 Holes					
	For Filter Cubes, With Noise Terminator	0	0	•	•	
	Mechanism, With Attachable UV Shield					
	Filter Cube B + LED Unit, 365nm	0	0	•	•	A5F.1063-B
Epi-Fluorescence	Filter Cube G + LED Unit, 405nm	0	0	•	•	A5F.1063-G
Attachment	Filter Cube U + LED Unit, 485nm	0	0	•	•	A5F.1063-U
	Filter Cube V + LED Unit, 525nm	0	0	0	0	A5F.1063-V
	Filter Cube FITC					A5F.1063-FITC
	Filter Cube DAPI					A5F.1063-DAPI
	Filter Cube TRITC					A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	•	•	
	1.0x C-Mount	•	•	•	•	A55.1063-1.0
Photo Adapter	0.5x C-Mount	0	0	0	0	A55.1063-0.5
·	0.7x C-Mount	0	0	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	•	•	
ECO Function	Auto Power Off 15 Minutes After No Operator Working	0	-	0	-	
	LCD Screen On Front Of Body, Display Using State					
	Of Microscope, Including Magnification, Light		_		_	
LCD Screen	Intensity, Standby Status, ECO Set Power Off	-	•	-	•	
	Timer 5 Mins to 8 Hours, And So On.					
Dimensions	244(W)x543(D)x526(H) mm	•	•	•	•	
	s Standard Outfits,"o" Is Optional Accessories "-" Is I	Inava	ailahlu	 ڊ		-

## A16.1065 Inverted LED Fluorescent Microscope, B,G,U

### OPTO-EDU

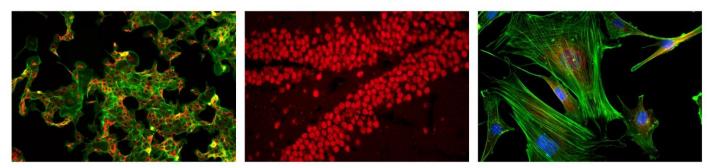


Brand New Design 2019 High Level Inverted Fluorescent Microscope Epi-Fluorescence Attachment, Turret With 3 Holes For Filter Cubes B,G,U Bands Super Long Working Distance Upto 187mm Condenser Coded 5 Holes Nosepiece With LCD Screen And Auto Brightness Adjust Function Phase Contrast, Hoffman Contrast, Emboss Contrast (DIC) Optional

OPTO-

#### Suitable For A Variety Of Fluorescent Dyes

Equipped With 3 Fluorescent Filter Blocks, It Provides A Wide Range Of Choice Of Dyes And Capture Clear High Contrast Fluorescence Images.



**Breast Cancer** 

Hippocampus

HC3T3 Mouse Brain Nerve Cells

A14.1065 Inverted B	iological Microscope,			
A16.1065 Inverted L	ED Fluorescent Microscope	A14.1065	A16.1065	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	
epilea eyetein	Bright Field,	•	•	
	Phase Contrast	•	0	
Observation Method	Epi-Fluorscence	0	•	
	DIC 3D Emboss Contrast	0	0	
	Hoffman Phase Contrast	0	0	
	Tilting Seidentopf Binocular Head, Incline 0-			
Head	45° Adjustable, Interpupillary Distance 48-	•	•	
	75mm, Eyepiece Tube Dia.30mm			
	EW10x/22mm, Diopter Adjustable,	•	•	4 54 4000 4000
	Dia.30mm	•	•	A51.1030-1022
	EW15x/16mm, Diopter Adjustable,			
Eyepiece / F.O.V	Dia.30mm	0	0	A51.1030-1516
	EW20x/12mm, Diopter Adjustable,			454 4000 0040
	Dia.30mm	0	0	A51.1030-2012
Necesiece	Coded Quintuple Nosepiece, Dovetail	•	•	
Nosepiece	Interface	•	•	
LWD Infinity Plan	4x/0.10, W.D.30.0mm	•	0	A5M.1032-4
Objective	10x/0.25, W.D.10.2mm	0	0	A5M.1032-10
•	20x/0.40, W.D.12.0mm	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	A5M.1032-40
LWD Infinity Plan	4x/0.10, W.D.30.0mm	0	0	A5C.1038-4
Phase Contrast	10x/0.25, W.D.10.2mm	•	0	A5C.1038-10
Objective	20x/0.40, W.D.12.0mm	•	0	A5C.1038-20
	40x/0.60, W.D.2.20mm	•	0	A5C.1038-40
LWD Infinity Plan	4x/0.13, W.D.17.0mm	0	0	A5C.1039-4
Semi-APO	10x/0.3, W.D.7.4mm	0	0	A5C.1039-10
Phase Contrast	20x/0.45, W.D.8.0mm	0	0	A5C.1039-20
Objective	40x/0.60, W.D.3.6mm	0	0	A5C.1039-40
	20x/0.45, W.D.7.5-8.8mm With Iris	<u>_</u>		AFC 4040 00
	Adjustable	0	0	A5C.1040-20
	40x/0.60, W.D.3.0-4.4mm With Iris	<u>_</u>		AFC 4040 40
	Adjustable	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris	0	0	A5C.1040-60
	Adjustable	0	0	ASC.1040-60
LWD Infinity Plan	4x/0.13, W.D.17.0mm, Cover Glass -	-	•	A5F.1032-4
Semi-APO	10x/0.30, W.D.7.4mm, Cover Glass1.2mm	-	•	A5F.1032-10
Fluorescent	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	•	A5F.1032-20
Objective	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	•	A5F.1032-40
	60x/0.70, W.D.1.8-2.6mm, Cover	0	0	A5F.1032-60
	Glass1.2mm		0	AJF.1032-00
	Coaxial Coarse & Fine Adjustment, Tension			
	Adjustable (At Right Hand), Fine Division			
Focusing System	0.002mm, Coarse Focusing Range Up	•	•	
	7mm, Down 1.5mm, Max Up To 18.5mm			
	After Removing Focusing Limit.			

	Plain Working Stage 170(X) x 250(Y)mm,	•	•	
	Attachable Mechanical Moving Stage, X-Y		•	A54.1063-XY
	Coaxial Moving 128x80mm	•	•	A34.1003-A1
	Stage Clip	•	•	A54.1063-SC
	Well Clamper For Well Plate	•	•	A54.1063-WC
	Glass Stage Plate	•	•	A54.1063-G
Working Stage	Metal Stage Plate For Culture Bottle	0	0	A54.1063-M
Working Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	A54.1063-A
	Universal Holder	•	•	A54.1063-U
	Terasaki Holder	0	0	A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	A54.1063-90
	Long Working Distance Detachable			
Condenser	Condenser NA 0.3, W.D.75mm, Without	•	•	
	Condenser W.D.187mm Centering Telescope 10x, Tube Dia. 30mm	•	0	A5C.1063-T
	Phase Slider For 4x//10x-20x-40x	•	0	A5C.1063-S
Phase Contrast	Phase Slider For 10x-20x,40x APO	•		
	Objectives	0	0	A5C.1063-APOS1
	Phase Slider For 4x,60x APO Objectives	0	0	A5C.1063-APOS2
	Emboss Contrast Slider For 10x-20x-40x			
Emboss Contrast DIC	Universal Emboss Contrast Plate For 10x-	0	0	A5C.1063-DIC
	20x-40x			
	Hoffman Phase Contrast Set:			
	Hoffman Phase Contrast Condenser, With			
Hoffman Phase	Polarizer,			
Contrast	Hoffman Phase Contrast Objective 10x,	0	0	A5C.1064
	20x, 40x			
	Hoffman Phase Slider For 10x, 20x, 40x			
	Centering Telescope 10x, Tube Dia. 30mm			
	Epi-Fluorescence Attachment, Turret With 3			
	Holes For Filter Cubes, With Noise	0	•	
Epi-Fluorescence	Terminator Mechanism, With Attachable UV	-		
Attachment	Shield			
	Filter Cube B + LED Unit, 365nm	0	•	A5F.1063-B
	Filter Cube G + LED Unit, 405nm	0	•	A5F.1063-G
	Filter Cube U + LED Unit, 485nm	0	•	A5F.1063-U
Epi-Fluorescence	Filter Cube V + LED Unit, 525nm	0	0	A5F.1063-V
Attachment	Filter Cube FITC	0	0	A5F.1063-FITC
	Filter Cube DAPI	0	0	A5F.1063-DAPI
	Filter Cube TRITC	0	0	A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	
	1.0x C-Mount	•	•	A55.1063-1.0
Photo Adapter	0.5x C-Mount	0	0	A55.1063-0.5
i noto / tapter	0.7x C-Mount	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	, 100. 1000 0.7
	LCD Screen On Front Of Body, Display	-		
	Using State Of Microscope, Including			
LCD Screen	Magnification, Light Intensity, Standby		•	
	Status, ECO Set Power Off Timer 5 Mins to	-	-	
	8 Hours, And So On.			
Dimensions	244(W)x543(D)x526(H) mm	•	•	
	andard Outfits,"o" Is Optional Accessories "-" Is	-		

### A12.1091 Research Scientific Laboratory Microscope, Manual

### OPTO-EDU



Auto Coded Nosepiece & Auto Condenser Automatically swing-out and swing-in the toplens element according to the objective lens that is selected via the intelligent linking.



Research Level Laboratory Microscope For BF/DF/PH/PL/FL/DIC Extra Wide Eyepiece EW10x/25mm Dia.30mm Diopter Adjustable 6 Holes Nosepiece With Infinity Plan Objective 4x10x20x40x100x Rackless Working Stage With Gorilla Glass 190x152mm Moving Range 78x54mm ECO Function Kohler Illumination 24V100W Halogen Or 3W SLED Optional

#### Dark-field Viewing

It can be used for clearly viewing of blood or flagellum etc. fine structure.



A12.1091	I, A12.1093 Research Level Scientific Laboratory Microscope	A12. -H	1091 -L	A12. -H	1093 -L	Cata.No.
Optical System	NIS60 Infinity Optical System	•	•	•	•	
	Bright Field	•	•	•	•	
	Dark Field	0	0	0	0	
Observation	Polarizing	0	0	0	0	
Vethod	Phase Contrast	0	0	0	0	
	Flourescent	0	0	0	0	
	DIC	0	0	0	0	
	BH Manual Body + Halogen Illumination.	•				A54.1090-BH
	BL Manual Body + LED Illumination.		•			A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness			•		A54.1090-ATH
Main Body	Adjust					
	ATL Semi-Auto Body + LED Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness				•	A54.1090-ATL
	Adjust					
	Seidentopf Binocular Head, Inclined 30°,					
	Interpupillary Distance 47-78mm	0	0	0	0	A53.1090-B
	Seidentopf Trinocular Head, Inclined 30°,					
	Interpupillary Distance 47-78mm,					A53.1090-T
Head	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100		•			//00.1000 1
	Ergo Tilting Trinocular Head, Inclination 0°~35°,					
	Interpupillary Distance 47-78mm,				•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100			•	•	A33.1030-11
	SW10x/25mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	••	••	••	••	A51.1090-102
	SW10x/22mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	0	0	0	0	A51.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	A51.1090-125 <sup>2</sup>
_yepiece	WF15x/16mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A31.1090-123
	Dia.30mm	0	0	0	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	0	0	0	0	A51.1090-2012
	Manual Nosepiece, Quintuple, Backward, Center					
	Adjustable					A54.1091-5M
	Manual Nosepiece, Sextuple, Backward	•	•			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto	•	•			A34.1091-0M
	Brightness Adjust	0	0			A54.1091-6C
	Auto Coded Nosepiece, Sextuple, Backward,					
	Motorized Switch Objectives, Controled By:					
Vosepiece	1. Shortcut Button On Right Side Of Base, Can Switch 2					
-	Preseted Objectives Quickly					
	2. Remote Control Pad In Front Of Base, Press Each	0	0	•	•	A54.1091-6A
	Button To Switch Objectives And Adjust The Light					
	Intensity Automatically. 2 Buttons Can Be Self-Defined					
	For Most Commonly Used Objecives, Press Green Button					
	Can Swap Between Them					
	With Slot For Polarizing Compensator Slider Or DIC Slider	•	•	•	•	
	Protect Cover For Nosepiece Holes	•	•	•	•	
	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-4
NIS60	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-10
N-PLN	20x/0.40, W.D.12mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-20
nfinity Plan	40x/0.65, W.D.0.7mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-40
Dbjective	50x/0.95(Oil, W.D.0.19mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-50
-		-	-			
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-60

NIS60 APO	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	0	0	0	0	A52.1091-20
Infinity Plan	100x/1.45(Oil), W.D.0.13mm, Cover Glass 0.17mm	0	0	0	0	A52.1091-100
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Left Handle	0	0			A54.1092-GL
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Right Handle	•	•			A54.1092-GR
Working Stage	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Left Handle			0	0	A54.1092-SL
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Right Handle			•	•	A54.1092-SR
	Low Position Control Knob, Height Adjustable Up/Down 18mm, Convex Point Guide Mechanism For Easily Put Slide By One Hand, With Tension Adjustable Ring, With Safety Stop Screw	•	•	•	•	
Condenser	Swing-Out Condenser NA0.9/0.25	•	•			A56.1091-S
Condensei	Auto Swing-Out Condenser NA0.9/0.25			•	•	A56.1091-A
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm, Can Exchange Hand Wheel Between Left/Righ	•	•	•	•	
	Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	•		•		A56.1090- 12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body		•		•	A56.1090- 3WLED
Light Source	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy	•	•	•	•	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected A12.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To A54.1091-6C Coded Nosepiece At Same Time	0	0	•	•	A56.1090-AB
	Filter Holder On Base, Can Hold 3 Filters	•	•		•	A56.1092-H
	Filter LBD		•		•	A56.1092-H
Filtor For	Filter Green	•	•	•	•	A56.1092-LBD
Filter For Transmit Light	Filter Yellow	•	•	•	•	A56.1092-S
	Filter ND6		•		•	A56.1092-1 A56.1092-ND6
	Filter ND25	•	•		•	A56.1092-ND0 A56.1092-ND25
					-	A56.1092-ND25 A55.1090-E
Adoptor	Eyepiece Adapter Dia.23.2mm	0	0	0	0	
Adapter	C-Mount 1.0x	0	0	0	0	A55.1090-1.0x
0. (1	C-Mount 0.5x	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	A30.1090

	Including Control Stick, Controller Box, Z Axis Moto Control Part, Motorized X/Y Mechanical Stage					
	Travel Range X:125mm, Y:75mmm,					
	Minimum Step 0.1um					
	Re-Position Accurate +/-1.5um					
	Max Speed 25mm/s					
Full-Auto	Size: 275x239x44.5mm					4544005 4
Motorized	Soft Stop, Mechanical Stop, Opto-Electro Switch Stop			0	0	A54.1095-A
Control Unit	Z Axis Re-Position Accurate: Average +/-1.5um, Near					
	Focus +/-0.1um					
	Z Axis Max Speed 10r/s					
	3D Control Stick, 4 Speeds					
	Connection By USB2.0 & RS232					
	Communication Speed 9600 bits					
	Upgrade To Z Axis With Optical Grating Ruler			0	0	A54.1095-B
	Dark Field Condenser, N.A. 0.7~0.9, Dry	0	0	0	0	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	0	0	0	0	A5D.1090-I
	Dark Field Objective, Infinity Plan 100X,		0		0	A3D.1030-1
Dark Field	For Immersion Dark Field Observation	0	0	0	0	A5D.1030-3
Dark Fleiu						
	Dark Field Objective, Infinity Plan 100X, With Iris	-	_	_	_	
	Diaphragm,	0	0	0	0	A5D.1030-4
	For Immersion Dark Field Observation					
	Polarizer For Transmit Light Source, Swing-Out, On Collector	0	0	0	0	A5P.1091-BP
Polarizing	Analyzer For Transmit Light, Slide With Quartz Wedge	0	0	0	0	A5P.1091-BA
	Compensator					
	Upgrade To A15.1091 Professional Polarizing Microscope	0	0			A15.1091
	Turret Phase Contrast Condenser, Center Adjustable	0	0	0	0	A5C.1090
	Centering Telescope 10x	0	0	0	0	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN PH 10x/0.25	0	0	0	0	A5C.1091-10
Phase Contras	tInfinity Plan Phase Contrast Objective N-PLN PH 20x/0.40	0	0	0	0	A5C.1091-20
	Infinity Plan Phase Contrast Objective N-PLN PH 40x/0.65	0	0	0	0	A5C.1091-40
	Infinity Plan Phase Contrast Objective N-PLN PH					
	,	0	0	0	0	A5C.1091-100
	100x/1.25(Oil)					
	100x/1.25(Oil) Polarizer For Transmit Light Source	0	0	0	0	A5P.1090-TP
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser					A5P.1090-TP A5C.1095
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective	0	0	0	0	A5P.1090-TP
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective	0	0	0	0	A5P.1090-TP A5C.1095
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent	0	0	0	0	A5P.1090-TP A5C.1095 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective	0 0 0	0 0 0	0 0 0	0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent	0 0 0	0 0 0	0 0 0	0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095-
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x		0 0 0 0 0 0	0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P
NIS60 N-PLFN	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm			0 0 0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10
NIS60 N-PLFN Semi-APO	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-1020P A5C.1095-40100P A5F.1091-10 A5F.1091-20
NIS60 N-PLFN Semi-APO Fluorescent	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm			0 0 0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100
NIS60 N-PLFN Semi-APO Fluorescent Objective For	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder Bracket					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.15, Cover Glass 0.17mm 100x/1.3, W.D.0.15, Cover Glass 0.17mm Upgrade To A16.1093 Fluorescent Microscope					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye Position					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096 A54.1096-A1
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion Oil					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen Wrench					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-02
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)         Polarizer For Transmit Light Source         Turret DIC Condenser         DIC Slide 10x, Used With Semi-APO Fluorescent         Objective         DIC Slide 20x/40x, Used With Semi-APO Fluorescent         Objective         DIC Slide 100x, Used With Semi-APO Fluorescent         Objective         DIC Slide 100x, Used With Semi-APO Fluorescent         Objective         DIC Slide With Analyzer 10x-20x         DIC Slide With Analyzer 40x-100x         10x/0.3, W.D.8.1, Cover Glass 0.17mm         20x/0.5, W.D.2.1, Cover Glass 0.17mm         40x/0.75, W.D.0.7, Cover Glass 0.17mm         100x/1.3, W.D.0.15, Cover Glass 0.17mm         Upgrade To A16.1093 Fluorescent Microscope         Working Stage Holder Bracket         Adapter To Adjust Eye Position         Adapter To Lower The Stage Position 1"         Immersion Oil         Allen Wrench         Power Cord					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-100 A5F.1091-100 A5F.1091-100 A5F.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-02 A50.1090-03 A50.1090-04
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03 A50.1090-04 A50.1090-05
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For EyepieceEyepiece Micrometer, Cross					A5P.1090-TP         A5C.1095         A5C.1095-10         A5C.1095-2040         A5C.1095-2040         A5C.1095-2040         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5F.1091-10         A5F.1091-20         A5F.1091-40         A55.1090-04         A50.1090-02         A50.1090-03         A50.1090-05         A50.1090-06
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03 A50.1090-03

## A12.1093 Research Scientific Laboratory Microscope, Semi-Auto

### OPTO-EDU



Auto Coded Nosepiece & Auto Condenser Automatically swing-out and swing-in the toplens element according to the objective lens that is selected via the intelligent linking.



Research Level Laboratory Microscope For BF/DF/PH/PL/FL/DIC Extra Wide Eyepiece EW10x/25mm Dia.30mm Diopter Adjustable Auto 6 Holes Nosepiece With Infinity Plan Objective 4x10x20x40x100x Auto Condenser & Brightness Adjust ECO Function Kohler Illumination 24V100W Halogen Or 3W SLED Optional Rackless Working Stage With Sapphire Crystal Glass Insert 190x152mm Moving Range 78x54mm

#### Dark-field Viewing

It can be used for clearly viewing of blood or flagellum etc. fine structure.



A12.1091	I, A12.1093 Research Level Scientific Laboratory Microscope	A12. -H	1091 -L	A12. -H	1093 -L	Cata.No.
Optical System	NIS60 Infinity Optical System	•	•	•	•	
	Bright Field	•	•	•	•	
	Dark Field	0	0	0	0	
Observation	Polarizing	0	0	0	0	
Vethod	Phase Contrast	0	0	0	0	
	Flourescent	0	0	0	0	
	DIC	0	0	0	0	
	BH Manual Body + Halogen Illumination.	•				A54.1090-BH
	BL Manual Body + LED Illumination.		•			A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness			•		A54.1090-ATH
Main Body	Adjust					
	ATL Semi-Auto Body + LED Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness				•	A54.1090-ATL
	Adjust					
	Seidentopf Binocular Head, Inclined 30°,					
	Interpupillary Distance 47-78mm	0	0	0	0	A53.1090-B
	Seidentopf Trinocular Head, Inclined 30°,					
	Interpupillary Distance 47-78mm,					A53.1090-T
Head	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100		•			//00.1000 1
	Ergo Tilting Trinocular Head, Inclination 0°~35°,					
	Interpupillary Distance 47-78mm,				•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100			•	•	A33.1030-11
	SW10x/25mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	••	••	••	••	A51.1090-102
	SW10x/22mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	0	0	0	0	A51.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	A51.1090-125 <sup>2</sup>
_yepiece	WF15x/16mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A31.1090-123
	Dia.30mm	0	0	0	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable,					
	Dia.30mm	0	0	0	0	A51.1090-2012
	Manual Nosepiece, Quintuple, Backward, Center					
	Adjustable					A54.1091-5M
	Manual Nosepiece, Sextuple, Backward	•	•			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto	•	•			A34.1091-0M
	Brightness Adjust	0	0			A54.1091-6C
	Auto Coded Nosepiece, Sextuple, Backward,					
	Motorized Switch Objectives, Controled By:					
Vosepiece	1. Shortcut Button On Right Side Of Base, Can Switch 2					
-	Preseted Objectives Quickly					
	2. Remote Control Pad In Front Of Base, Press Each	0	0	•	•	A54.1091-6A
	Button To Switch Objectives And Adjust The Light					
	Intensity Automatically. 2 Buttons Can Be Self-Defined					
	For Most Commonly Used Objecives, Press Green Button					
	Can Swap Between Them					
	With Slot For Polarizing Compensator Slider Or DIC Slider	•	•	•	•	
	Protect Cover For Nosepiece Holes	•	•	•	•	
	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-4
NIS60	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-10
N-PLN	20x/0.40, W.D.12mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-20
nfinity Plan	40x/0.65, W.D.0.7mm, Cover Glass 0.17mm	•	•	•	•	A52.1090-40
Dbjective	50x/0.95(Oil, W.D.0.19mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-50
-		-	-			
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	0	0	0	0	A52.1090-60

NIS60 APO	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	0	0	0	0	A52.1091-20
Infinity Plan	100x/1.45(Oil), W.D.0.13mm, Cover Glass 0.17mm	0	0	0	0	A52.1091-100
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Left Handle	0	0			A54.1092-GL
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Right Handle	•	•			A54.1092-GR
Working Stage	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Left Handle			0	0	A54.1092-SL
	Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Right Handle			•	•	A54.1092-SR
	Low Position Control Knob, Height Adjustable Up/Down 18mm, Convex Point Guide Mechanism For Easily Put Slide By One Hand, With Tension Adjustable Ring, With Safety Stop Screw	•	•	•	•	
Condenser	Swing-Out Condenser NA0.9/0.25	•	•			A56.1091-S
Condensei	Auto Swing-Out Condenser NA0.9/0.25			•	•	A56.1091-A
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm, Can Exchange Hand Wheel Between Left/Righ	•	•	•	•	
	Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	•		•		A56.1090- 12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body		•		•	A56.1090- 3WLED
Light Source	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy	•	•	•	•	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected A12.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To A54.1091-6C Coded Nosepiece At Same Time	0	0	•	•	A56.1090-AB
	Filter Holder On Base, Can Hold 3 Filters	•	•		•	A56.1092-H
	Filter LBD		•		•	A56.1092-H
Filtor For	Filter Green	•	•	•	•	A56.1092-LBD
Filter For Transmit Light	Filter Yellow	•	•	•	•	A56.1092-S
	Filter ND6		•		•	A56.1092-1 A56.1092-ND6
	Filter ND25	•	•		•	A56.1092-ND0 A56.1092-ND25
					-	A56.1092-ND25 A55.1090-E
Adoptor	Eyepiece Adapter Dia.23.2mm	0	0	0	0	
Adapter	C-Mount 1.0x	0	0	0	0	A55.1090-1.0x
0. (1	C-Mount 0.5x	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	A30.1090

	Including Control Stick, Controller Box, Z Axis Moto Control Part, Motorized X/Y Mechanical Stage					
	Travel Range X:125mm, Y:75mmm,					
	Minimum Step 0.1um					
	Re-Position Accurate +/-1.5um					
	Max Speed 25mm/s					
Full-Auto	Size: 275x239x44.5mm					4544005 4
Motorized	Soft Stop, Mechanical Stop, Opto-Electro Switch Stop			0	0	A54.1095-A
Control Unit	Z Axis Re-Position Accurate: Average +/-1.5um, Near					
	Focus +/-0.1um					
	Z Axis Max Speed 10r/s					
	3D Control Stick, 4 Speeds					
	Connection By USB2.0 & RS232					
	Communication Speed 9600 bits					
	Upgrade To Z Axis With Optical Grating Ruler			0	0	A54.1095-B
	Dark Field Condenser, N.A. 0.7~0.9, Dry	0	0	0	0	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	0	0	0	0	A5D.1090-I
	Dark Field Objective, Infinity Plan 100X,		0		0	A3D.1030-1
Dark Field	For Immersion Dark Field Observation	0	0	0	0	A5D.1030-3
Dark Fleiu						
	Dark Field Objective, Infinity Plan 100X, With Iris	-	_	_	_	
	Diaphragm,	0	0	0	0	A5D.1030-4
	For Immersion Dark Field Observation					
	Polarizer For Transmit Light Source, Swing-Out, On Collector	0	0	0	0	A5P.1091-BP
Polarizing	Analyzer For Transmit Light, Slide With Quartz Wedge	0	0	0	0	A5P.1091-BA
	Compensator					
	Upgrade To A15.1091 Professional Polarizing Microscope	0	0			A15.1091
	Turret Phase Contrast Condenser, Center Adjustable	0	0	0	0	A5C.1090
	Centering Telescope 10x	0	0	0	0	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN PH 10x/0.25	0	0	0	0	A5C.1091-10
Phase Contras	tInfinity Plan Phase Contrast Objective N-PLN PH 20x/0.40	0	0	0	0	A5C.1091-20
	Infinity Plan Phase Contrast Objective N-PLN PH 40x/0.65	0	0	0	0	A5C.1091-40
	Infinity Plan Phase Contrast Objective N-PLN PH					
	,	0	0	0	0	A5C.1091-100
	100x/1.25(Oil)					
	100x/1.25(Oil) Polarizer For Transmit Light Source	0	0	0	0	A5P.1090-TP
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser					A5P.1090-TP A5C.1095
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective	0	0	0	0	A5P.1090-TP
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective	0	0	0	0	A5P.1090-TP A5C.1095
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent	0	0	0	0	A5P.1090-TP A5C.1095 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective	0 0 0	0 0 0	0 0 0	0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent	0 0 0	0 0 0	0 0 0	0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P
DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095-
	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x		0 0 0 0 0 0	0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P
NIS60 N-PLFN	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm			0 0 0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10
NIS60 N-PLFN Semi-APO	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-1020P A5C.1095-40100P A5F.1091-10 A5F.1091-20
NIS60 N-PLFN Semi-APO Fluorescent	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm			0 0 0 0 0 0 0 0		A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.7, Cover Glass 0.17mm					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100
NIS60 N-PLFN Semi-APO Fluorescent Objective For	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder Bracket					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil) Polarizer For Transmit Light Source Turret DIC Condenser DIC Slide 10x, Used With Semi-APO Fluorescent Objective DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective DIC Slide 100x, Used With Semi-APO Fluorescent Objective DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 10x-20x DIC Slide With Analyzer 40x-100x 10x/0.3, W.D.8.1, Cover Glass 0.17mm 20x/0.5, W.D.2.1, Cover Glass 0.17mm 40x/0.75, W.D.0.15, Cover Glass 0.17mm 100x/1.3, W.D.0.15, Cover Glass 0.17mm Upgrade To A16.1093 Fluorescent Microscope					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye Position					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096 A54.1096-A1
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion Oil					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen Wrench					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-02
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)         Polarizer For Transmit Light Source         Turret DIC Condenser         DIC Slide 10x, Used With Semi-APO Fluorescent         Objective         DIC Slide 20x/40x, Used With Semi-APO Fluorescent         Objective         DIC Slide 100x, Used With Semi-APO Fluorescent         Objective         DIC Slide 100x, Used With Semi-APO Fluorescent         Objective         DIC Slide With Analyzer 10x-20x         DIC Slide With Analyzer 40x-100x         10x/0.3, W.D.8.1, Cover Glass 0.17mm         20x/0.5, W.D.2.1, Cover Glass 0.17mm         40x/0.75, W.D.0.7, Cover Glass 0.17mm         100x/1.3, W.D.0.15, Cover Glass 0.17mm         Upgrade To A16.1093 Fluorescent Microscope         Working Stage Holder Bracket         Adapter To Adjust Eye Position         Adapter To Lower The Stage Position 1"         Immersion Oil         Allen Wrench         Power Cord					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-20 A5F.1091-40 A5F.1091-100 A5F.1091-100 A5F.1091-100 A5F.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-02 A50.1090-03 A50.1090-04
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03 A50.1090-04 A50.1090-05
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent Other	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For EyepieceEyepiece Micrometer, Cross					A5P.1090-TP         A5C.1095         A5C.1095-10         A5C.1095-2040         A5C.1095-2040         A5C.1095-2040         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5C.1095-10         A5F.1091-10         A5F.1091-20         A5F.1091-40         A55.1090-03         A54.1096-A2         A50.1090-02         A50.1090-03         A50.1090-04         A50.1090-05         A50.1090-06
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC Fluorescent	100x/1.25(Oil)Polarizer For Transmit Light SourceTurret DIC CondenserDIC Slide 10x, Used With Semi-APO FluorescentObjectiveDIC Slide 20x/40x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide 100x, Used With Semi-APO FluorescentObjectiveDIC Slide With Analyzer 10x-20xDIC Slide With Analyzer 40x-100x10x/0.3, W.D.8.1, Cover Glass 0.17mm20x/0.5, W.D.2.1, Cover Glass 0.17mm40x/0.75, W.D.0.7, Cover Glass 0.17mm100x/1.3, W.D.0.15, Cover Glass 0.17mmUpgrade To A16.1093 Fluorescent MicroscopeWorking Stage Holder BracketAdapter To Adjust Eye PositionAdapter To Lower The Stage Position 1"Immersion OilAllen WrenchPower CordShort Eye Cover, For EyepieceLong Eye Cover, For Eyepiece					A5P.1090-TP A5C.1095 A5C.1095-10 A5C.1095-2040 A5C.1095-2040 A5C.1095-10 A5C.1095-10 A5C.1095- 1020P A5C.1095- 40100P A5F.1091-10 A5F.1091-20 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-40 A5F.1091-100 A16.1093 A54.1096-A1 A54.1096-A1 A54.1096-A1 A54.1096-A2 A50.1090-01 A50.1090-03 A50.1090-03

# A12.1095

Research Scientific Laboratory Microscope, Full-Auto Motorized

### OPTO-EDU



3 Holes Fluorescent Slide + 5W LED Fluorescent Illumination Seidentopf Trinocular Head, Light Split Switch E100:P0 / E20:P80 LWD Infinity Plan Objectives Bright Field & Phase Contrast Observation Supported LWD Condenser N.A.0.3 Working Distance 72mm, Up To 195mm Without Condenser Standard Halogen 6V30W Koehler Illumination, 5W LED Optional For Choice

A12.1095 Ft	Il Auto Motorized Research Level Scientific	A12.	1091	A12.	1093	A12.109	Cata.No.
	Laboratory Microscope	-H	-L	-H	-L	5	Cata.No.
Optical Syster	n NIS60 Infinity Optical System	•	•	•	•	•	
	Bright Field	•	•	•	•	•	
	Dark Field	0	0	0	0	0	
Observation	Polarizing	0	0	0	0	0	
Method	Phase Contrast	0	0	0	0	0	
	Flourescent	0	0	0	0	0	
	DIC	0	0	0	0	0	
	BH Manual Body + Halogen Illumination.	•					A54.1090-BH
	BL Manual Body + LED Illumination.		•				A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.						
Main Body	Auto Nosepiece + Auto Condenser + Auto			•			A54.1090-AT
Main Bouy	Brightness Adjust						
	ATL Semi-Auto Body + LED Illumination.						
	Auto Nosepiece + Auto Condenser + Auto				•		A54.1090-AT
	Brightness Adjust						
	Full Auto Body + LED Illumination.						
	Auto Nosepiece + Auto Condenser + Auto						
	Brightness Adjust					•	
	Auto X/Y/Z Motorized Control Working Stage+						
	Information LCD Screen						

	Seidentopf Binocular Head, Inclined 30°,	0	0	0	0	0	A53.1090-B
	Interpupillary Distance 47-78mm						
	Seidentopf Trinocular Head, Inclined 30°,						
	Interpupillary Distance 47-78mm,			0	0		A53.1090-T
	3 Level Light Split Switch	•		0		•	A33.1030-1
Head	E100:P0/E20:P80/E0:P100						
	Ergo Tilting Trinocular Head, Inclination						
	0°~35°,						
	Interpupillary Distance 47-78mm,	0	0	•	•	0	A53.1090-TT
	3 Level Light Split Switch						
	E100:P0/E20:P80/E0:P100						
	SW10x/25mm, High Eyepoint, Diopter	••				••	A51.1090-
	Adjustable, Dia.30mm	••	••	••	••	••	1025
	SW10x/22mm, High Eyepoint, Diopter	0		0	_	0	A51.1090-
	Adjustable, Dia.30mm	0	0	0	0	0	1022
	EW/40 Ev/40mm Llink Even sint	0		(	_	0	A51.1090-
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	0	12516
	WF15x/16mm, High Eyepoint, Diopter	0			_		A51.1090-
	Adjustable, Dia.30mm	0	0	0	0	0	1516
	WF20x/12mm, High Eyepoint, Diopter		_	_	_		A51.1090-
	Adjustable, Dia.30mm	0	0	0	0	0	2012
	Manual Nosepiece, Quintuple, Backward,						
	Center Adjustable						A54.1091-5M
	Manual Nosepiece, Sextuple, Backward	٠	•				A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For						
	Auto Brightness Adjust	0	0				A54.1091-6C
	Auto Coded Nosepiece, Sextuple, Backward,						
	Motorized Switch Objectives, Controled By:						
	1. Shortcut Button On Right Side Of Base, Can						
	Switch 2 Preseted Objectives Quickly						
Nosepiece	2. Remote Control Pad In Front Of Base, Press						
	Each Button To Switch Objectives And Adjust	0	0	•	•	•	A54.1091-6A
	The Light Intensity Automatically. 2 Buttons						
	Can Be Self-Defined For Most Commonly Used						
	Objectives, Press Green Button Can Swap						
	Between Them						
	With Slot For Polarizing Compensator Slider Or						
	DIC Slider	•	•	•	•	•	
	Protect Cover For Nosepiece Holes	•	•			•	A54.1091-C
NIS60	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	0	0	0	0	0	
N-PLN	4x/0.10, W.D.30mm, Cover Glass 0.17mm		•	•	0		A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	•	•	•	•	•	A52.1090-4
Infinity Plan	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	•	•	•	•	•	A52.1090-10
Objective				-			4.50,4000,00
	20x/0.40, W.D.12mm, Cover Glass 0.17mm	•	•	•	•	•	A52.1090-20
	40x/0.65, W.D.0.7mm, Cover Glass 0.17mm	•	•	•	•	•	A52.1090-40
	50x/0.95(Oil, W.D.0.19mm, Cover Glass	0	0	0	0	0	A52.1090-50
	0.17mm						
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	0	0	0	0	0	A52.1090-60
	100x/1.25(Oil), W.D.0.2mm, Cover Glass	•	•	•		•	A52.1090-100
	0.17mm						
NIS60 APO	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	0	0	0	0	0	A52.1091-20
Infinity Plan	100x/1.45(Oil), W.D.0.13mm, Cover Glass	0	0	0	0	0	A52.1091-100
	0.17mm	~	_	1	-	-	

			1				
	Double Layer Mechanical Stage Full Size						
	302x152mm, Stage Table Size 190x152mm,	0	0			0	A54.1092-GL
	Moving Range 78x32mm, Double Slide Holder,						
	With Gorilla Glass Insert, Left Handle						
	Double Layer Mechnical Stage Full Size						
	302x152mm, Stage Table Size 190x152mm,	•	•			0	A54.1092-GR
	Moving Range 78x32mm, Double Slide Holder,						
	With Gorilla Glass Insert, Right Handle						
	Double Layer Mechnical Stage Full Size						
Working Stage	302x152mm, Stage Table Size 190x152mm,			0	0	0	A54.1092-SL
tronking Olago	Moving Range 78x32mm, Double Slide Holder,			Ũ	Ŭ	0	
	With Sapphire Glass Insert, Left Handle						
	Double Layer Mechanical Stage Full Size						
	302x152mm, Stage Table Size 190x152mm,			•	•	0	A54.1092-SR
	Moving Range 78x32mm, Double Slide Holder,			-		0	
	With Sapphire Glass Insert, Right Handle						
	Low Position Control Knob, Height Adjustable						
	Up/Down 18mm, Convex Point Guide Mechanism	•		•		•	
	For Easily Put Slide By One Hand, With Tension	•	-	•		•	
	Adjustable Ring, With Safety Stop Screw						
Condenser	Swing-Out Condenser NA0.9/0.25	•	•				A56.1091-S
Condensei	Auto Swing-Out Condenser NA0.9/0.25			•	•	•	A56.1091-A
Focusing	Coaxial Coarse & Fine Focusing, Fine Division						
	0.001mm, Focusing Range 35mm, Coarse Stroke	•				•	
	37.7mm, Fine Stroke 0.1mm, Can Exchange Hand	•	•	•	•	•	
	Wheel Between Left/Righ						
	Transmit Kohler Illumination, Brightness Adjustable,	_		_			A56.1090-
	12V100W Halogen, External Lamp House	•		•			12V100W
	Transmit Kohler Illumination, Brightness Adjustable,						A56.1090-
	3W S-LED, Built-in Main Body		•		•	•	3WLED
	ECO Function Support Auto Power Off After 30						
	Mins From Operator Leave To Save Energy	•	•	•	•	•	A56.1090-ECO
Light Source	Auto Brightness Adjust, Brightness For Each						
	Objective Can Be Memorized And Restored When						
	Objective Is Selected						
		0	0	•	•	•	A56.1090-AB
	A12.1091 Upgradeable To Auto Brightness Adjust,						
	Must Upgrade To A54.1091-6C Coded Nosepiece						
	At Same Time						
	Filter Holder On Base, Can Hold 3 Filters	٠	•	•	•	•	A56.1092-H
	Filter LBD	٠	•	•	•	•	A56.1092-LBD
	Filter Green	•	•	•	•	•	A56.1092-G
Filter For	Filter Yellow	•	•	•	•	•	A56.1092-Y
Transmit Light	Filter ND6	۲	•	•	•	•	A56.1092-ND6
				•		•	A56.1092-
	Filter ND25	•	•	•	•	•	ND25
	Eyepiece Adapter Dia.23.2mm	0	0	0	0	0	A55.1090-E
Adapter	C-Mount 1.0x	0	0	0	0	0	A55.1090-1.0x
-	C-Mount 0.5x	0	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	0	A30.1090
	Including Control Stick, Controller Box, Z Axis Motor						
	Control Part, Motorized X/Y Mechanical Stage						
	Travel Range X:125mm, Y:75mmm,						
	Minimum Step 0.1um						
	Re-Position Accurate +/-1.5um						
	Max Speed 25mm/s						
	Size: 275x239x44.5mm						
Full-Auto	Soft Stop, Mechanical Stop, Opto-Electro Switch			0	0	•	A54.1095-A
Motorized	Stop			_		-	
Control Unit	Z Axis Re-Position Accurate: Average +/-1.5um,						
	Near Focus +/-0.1um						
	Z Axis Max Speed 10r/s						
	3D Control Stick, 4 Speeds						
	SD Control Stick, 4 Speeds Connection By USB2.0 & RS232						
	Communication Speed 9600 bits						
				0	0	0	A54.1095-B
	Upgrade To Z Axis With Optical Grating Ruler			0		0	A04.1090-B

	Dark Field Condenser, N.A. 0.7~0.9, Dry	0	0	0	0	0	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36,	0	0	0	0	0	A5D.1090-I
	Immersion	0			0	0	ASD. 1090-1
Dark Field	Dark Field Objective, Infinity Plan 100X,	0	0	0	0	0	A5D.1030-3
	For Immersion Dark Field Observation	0			0		A3D.1030-3
	Dark Field Objective, Infinity Plan 100X, With						
	Iris Diaphragm,	0	0	0	0	0	A5D.1030-4
	For Immersion Dark Field Observation						
	Polarizer For Transmit Light Source, Swing-	0	0	0	0	0	A5P.1091-BP
	Out, On Collector						
Polarizing	Analyzer For Transmit Light, Slide With Quartz	0	0	0	0	0	A5P.1091-BA
olarizing	Wedge Compensator			_	_	-	
	Upgrade To A15.1091 Professional Polarizing	0	0			0	A15.1091
	Microscope						
	Turret Phase Contrast Condenser, Center	0	0	0	0	0	A5C.1090
	Adjustable						
	Centering Telescope 10x	0	0	0	0	0	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN	0	0	0	0	0	A5C.1091-10
	PH 10x/0.25						
Phase Contrast	Infinity Plan Phase Contrast Objective N-PLN	0	0	0	0	0	A5C.1091-20
	PH 20x/0.40						
	Infinity Plan Phase Contrast Objective N-PLN	0	0	0	0	0	A5C.1091-40
	PH 40x/0.65						
	Infinity Plan Phase Contrast Objective N-PLN	0	0	0	0	0	A5C.1091-100
	PH 100x/1.25(Oil)	0	0	0	0	0	
	Polarizer For Transmit Light Source Turret DIC Condenser	0	0	0	0	0	A5P.1090-TP A5C.1095
	DIC Slide 10x, Used With Semi-APO	0	0	0	0	0	ASC. 1095
	Fluorescent Objective	0	0	0	0	0	A5C.1095-10
	DIC Slide 20x/40x, Used With Semi-APO						A5C.1095-
	Fluorescent Objective	0	0	0	0	0	2040
DIC	DIC Slide 100x, Used With Semi-APO						2040
	Fluorescent Objective	0	0	0	0	0	A5C.1095-10
							A5C.1095-
	DIC Slide With Analyzer 10x-20x	0	0	0	0	0	1020P
							A5C.1095-
	DIC Slide With Analyzer 40x-100x	0	0	0	0	0	40100P
NIS60 N-PLFN	10x/0.3, W.D.8.1, Cover Glass 0.17mm	0	0	0	0	0	A5F.1091-10
Semi-APO	20x/0.5, W.D.2.1, Cover Glass 0.17mm	0	0	0	0	0	A5F.1091-20
Fluorescent	40x/0.75, W.D.0.7, Cover Glass 0.17mm	0	0	0	0	0	A5F.1091-40
Objective For		_					
DIC	100x/1.3, W.D.0.15, Cover Glass 0.17mm	0	0	0	0	0	A5F.1091-100
Fluorescent	Upgrade To A16.1093 Fluorescent Microscope	-	-	0	0	0	A16.1093
	Working Stage Holder Bracket	•	•	•	•	•	A54.1096
	Adapter To Adjust Eye Position	0	0	0	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	0	0	0	A54.1096-A2
	Immersion Oil	•	•	•	•	•	A50.1090-01
Other	Allen Wrench	•	•	•	•	•	A50.1090-02
Other	Power Cord	•	•	•	•	•	A50.1090-03
Accessories	Short Eye Cover, For Eyepiece	0	0	0	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	0	0	0	A50.1090-07
	USB Cable	0	0	0	0	0	A50.1090-08
	e Is Standard Outfits,"o" Is Optional Accessories	"-" le		ilahla			

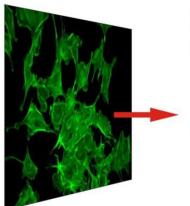
## A16.1093 Upright Fluorescent Microscope, Semi-APO, Semi-Motorized

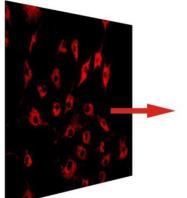


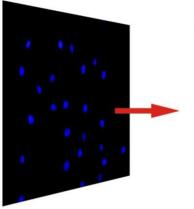


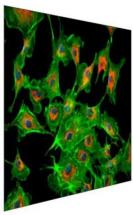


Research Level Fluorescent Microscope With 6 Position Turret Disc Epi-Fluorescent Illuminator Extra Wide Eyepiece EW10x/22mm Dia.30mm Diopter Adjustable Auto 6 Holes Nosepiece With Infinity Plan Objective 4x10x20x40x100x Rackless Working Stage With Sapphire Crystal Glass Insert 190x152mm Moving Range 78x54mm Auto Brightness Adjust ECO Function Kohler Illumination 24V100W Halogen Or 3W SLED Optional









A	\$ 1003 Possarch Loval Elucroscont Laboratory Microscone	A16.	1093	Cata. No.
AT	5.1093 Research Level Fluorescent Laboratory Microscope	-H	-L	Cata. No.
Optical	NIS60 Infinity Optical System			
System				
	Bright Field	•	•	
	Dark Field	0	0	
Observation	Q	0	0	
Method	Phase Contrast	0	0	
	Flourescent	•	•	
	S	0	0	
/lain Body	ATL Semi-Auto Body + LED Illumination.	•	•	A54.1090-ATL
	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust			
المعما	Ergo Tilting Trinocular Head, Inclination 0°~35°,			
lead	Interpupillary Distance 47-78mm,	•	•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100			
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	••	••	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	A51.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	A51.1090-1251
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	A51.1090-2012
	Auto Coded Nosepiece, Sextuple, Backward,			
losepiece	Motorized Switch Objectives, Controled By: 1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted Objectives Quickly 2. Remote Control Pad In Front Of Base, Press Each Button To Switch Objectives And Adjust The Light Intensity Automatically. 2 Buttons Can Be Self-Defined For Most Commonly Used Objecives, Press Green Button Can Swap Between Them	•	•	A54.1091-6A
	With Slot For Polarizing Compensator Slider Or DIC Slider		•	
I-PLFN	PlanF S-APO 4x/0.13, W.D.16.5mm, Cover Glass 0.17mm			A5F.1091-4
nfinity Plan		•	•	A5F.1091-10
Semi-APO	PlanF S-APO 20x/0.50, W.D.2.1mm, Cover Glass 0.17mm	•	•	A5F.1091-20
	PlanF S-APO 20x/0.50, W.D.2. mini, Cover Glass 0.17mm PlanF S-APO 40x/0.75, W.D.0.7mm, Cover Glass 0.17mm		-	A5F.1091-20
		•	•	
Objective	PlanF S-APO 100x/1.30(Oil), W.D.0.15mm, Cover Glass 0.17mm Double Layer Mechnical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder,	•	•	A5F.1091-100 A54.1092-SL
	With Sapphire Glass Insert, Left Handle Double Layer Mechnical Stage Full Size 302x152mm, Stage Table			A34.1092-3L
Vorking Stage	Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Right Handle	•	•	A54.1092-SR
	Low Position Control Knob, Height Adjustable Up/Down 18mm, Convex Point Guide Mechanism For Easily Put Slide By One Hand,	•	•	
	With Tension Adjustable Ring, With Safety Stop Screw			
Condenser	Auto Swing-Out Condenser NA0.9/0.25	•	•	A56.1091-A
ocusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm, Can	•	•	
	Exchange Hand Wheel Between Left/Righ Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	•		A56.1090- 12V100W
ight Source	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body		•	A56.1090- 3WLED
	Leave To Save Energy	•	•	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected	•	•	A56.1090-AB

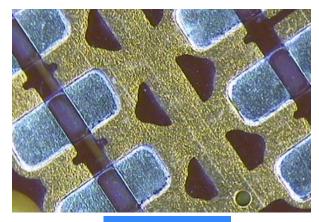
	Filter Holder On Base, Can Hold 3 Filters	•	•	A56.1092-H
	Filter LBD	•	•	A56.1092-LBD
Filter For	Filter Green	•	•	A56.1092-G
Transmit	Filter Yellow	•	•	A56.1092-Y
Light	Filter ND6	•	•	A56.1092-ND6
	Filter ND25	•	•	A56.1092-ND25
	Eyepiece Adapter Dia.23.2mm	0	0	A55.1090-E
Adapter	C-Mount 1.0x	0	0	A55.1090-1.0x
raapter	C-Mount 0.5x	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	A30.1090
Contware	Dark Field Condenser, N.A. 0.7~0.9, Dry	0	0	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	0	0	A5D.1090-D
	Dark Field Objective, Infinity Plan 100X,	0		A3D.1030-1
Dark Field	For Immersion Dark Field Observation	0	0	A5D.1030-3
	Dark Field Objective, Infinity Plan 100X, With Iris Diaphragm,			
	For Immersion Dark Field Observation	0	0	A5D.1030-4
	Polarizer For Transmit Light Source	0		A5P.1091-P
			0	A5P.1091-A
	Analyzer Slide For Transmit Light Source	0	0	
	Gout Set: Polarizer, λ Slide, Quaterz Wedge Slide	0	0	A5P.1091-T
	Upgrade To A15.1091 Professional Polarizing Microscope			A15.1091
	Turret Phase Contrast Condenser, Center Adjustable	0	0	A5C.1090
	Centering Telescope 10x	0	0	A5C.1092
Phase	Infinity Plan Phase Contrast Objective N-PLN PH 10x/0.25	0	0	A5C.1091-10
Contrast	Infinity Plan Phase Contrast Objective N-PLN PH 20x/0.40	0	0	A5C.1091-20
	Infinity Plan Phase Contrast Objective N-PLN PH 40x/0.65	0	0	A5C.1091-40
	Infinity Plan Phase Contrast Objective N-PLN PH 100x/1.25(Oil)	0	0	A5C.1091-100
	Polarizer For Transmit Light Source	0	0	A5P.1090-TP
	Turret DIC Condenser	0	0	A5C.1095
	DIC Slide 10x, Used With Semi-APO Fluorescent Objective	0	0	A5C.1095-10
DIC	DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective	0	0	A5C.1095-2040
	DIC Slide 100x, Used With Semi-APO Fluorescent Objective	0	0	A5C.1095-10
	DIC Slide With Analyzer 10x-20x	0	0	A5C.1095-1020P
	DIC Slide With Analyzer 40x-100x	0	0	A5C.1095-
		-		40100P
	Reflect Mercury Epi-Fluorescent Illuminator, Turret Disc With 6	•	•	A5F.1090
	Positions For Fluroescent Filter Block, With Protect Barrier			
	Power Supply Box 220V/110V Interchargeable, Digital Display	•	•	A5F.1090-100WH
	100W Mercury Lamp Housing	•	•	A5F.1090-100WP
	Reflect LED Epi-Fluorescent Illuminator, Turret Disc With 6 Positions	0	0	A5F.1090-LED
	For Fluroescent Filter Block, With Protect Barrier			
	LED Light Source Module, For Fluorescent Filter B	0	0	A5F.1090-LB
	LED Light Source Module, For Fluorescent Filter G	0	0	A5F.1090-LG
	LED Light Source Module, For Fluorescent Filter U	0	0	A5F.1090-LU
	LED Light Source Module, For Fluorescent Filter V	0	0	A5F.1090-LV
	Fluorescent Filter B, BP460-490, BA520, DM500	•	•	A5F.1090-B
	Fluorescent Filter G, BP510-550, BA590, DM570	•	•	A5F.1090-G
Attachment	Fluorescent Filter U, BP330-385, BA420, DM400	•	•	A5F.1090-U
	Fluorescent Filter V, BP400-410, BA455, DM455	•	•	A5F.1090-V
	Fluorescent Filter FITC, BP460-495, BA510-550, DM505	0	0	A5F.1090-FITC
	Fluorescent Filter DAPI, BP360-390, BA435-485, DM415	0	0	A5F.1090-DAPI
	Fluorescent Filter TRITC, BP528-553, BA578-633, DM565	0	0	A5F.1090-TRITC
	Fluorescent Filter R, BP620-650, BA670-750, DM660	0	0	A5F.1090-R
	Fluorescent Filter Empty Block	0	0	A5F.1090-E
			-	A5F.1090-ND6
	Filter ND6	•	•	/ 01 .1000 1100
		•	•	A5F.1090-ND25
	Filter ND6	•		
	Filter ND6 Filter ND25	• • • • •	•	A5F.1090-ND25

	Working Stage Holder Bracket	•	•	A54.1096
	Adapter To Adjust Eye Position	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	A54.1096-A2
	Immersion Oil	•	•	A50.1090-01
Other Accessories	Allen Wrench	•	•	A50.1090-02
	Power Cord	•	•	A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	A50.1090-07
	USB Cable	0	0	A50.1090-08

# A13.1091

Metallurgical Microscope, Reflect, Transmit/Reflect, Semi-APO, BF/DF, DIC, PL

#### OPTO-EDU

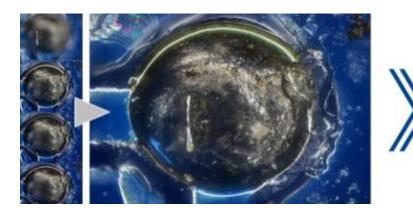


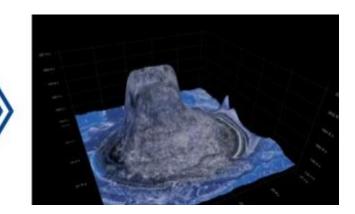
Wafer, Darkfield

Research Level Metallurgical Microscope, Manual, With Reflect, Transmit/Reflect Light Manual 6 Holes Nosepiece With NIS45 Infinity Plan Semi-APO BD Objective 5x10x LWD 20x50x100x 4" Working Stage, Size 210x170mm, Move Range 102x102mm, With Round Crystal Holder, Wafer Holder Reflect 12V100W Halogen Illuminator, Bright Field, Polarizing, DIC View Transmit 12V100W Halogen Kohler Illumination, Auto Adjust Brightness, ECO Function

#### ♦ 3D Depth Of Field Fusion

Provides depth fusion and 3D reconstruction functions





A13.1091	A13.1093 Metallurgical Microscope, BF/DF, DIC, PL,	A13	1091	A13.	1093	Cata.No.
	ΑΡΟ	-R	-TR		-TR	
Optical System	NIS45 Infinite Optical System	•	•	•	•	
	Bright Field	•	•	•	•	
Observation	Dark Field	•	•	•	•	
Method	Polarizing	•	•	•	•	
	DIC	•	•	•	•	
	BH Manual Body + Halogen Illumination.	•	•			A54.1090-BH
	BL Manual Body + LED Illumination.	0	0			A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.					
Main Dadu	Auto Nosepiece + Auto Condenser + Auto Brightness			•	•	A54.1090-ATH
Main Body	Adjust					
	ATL Semi-Auto Body + LED Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness			0	0	A54.1090-ATL
	Adjust					
	Seidentopf Binocular Head, Inclined 30°,					A53.1090-B
	Interpupillary Distance 47-78mm	0	0	0	0	АЭЭ. 1090-В
	Seidentopf Trinocular Head, Inclined 30°,					
Head	Interpupillary Distance 47-78mm,	0	0	0	0	A53.1090-T
пеац	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
	Ergo Tilting Trinocular Head, Inclination 0°~35°,					
	Interpupillary Distance 47-78mm,	•	•	•	•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
	SW10x/25mm, High Eyepoint, Diopter Adjustable,				••	A51.1090-1025
	Dia.30mm	••	••	••	••	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable,	0		0	0	A51.1090-1022
	Dia.30mm	0	0	0	0	A31.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A51.1090-1516
	Dia.30mm					A31.1090-1310
	WF20x/12mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A51.1090-2012
	Dia.30mm					AJ1.1090-2012
	Manual Nosepiece, Sextuple, Backward	•	•			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto	0	0			A54.1091-6C
	Brightness Adjust					AJ4.1091-0C
	Auto Coded Nosepiece, Sextuple, Backward,					
	Motorized Switch Objectives, Controled By:					
	1. Shortcut Button On Right Side Of Base, Can Switch 2					
	Preseted Objectives Quickly					
Nosepiece	2. Remote Control Pad In Front Of Base, Press Each			•	•	A54.1091-6A
	Button To Switch Objectives And Adjust The Light					
	Intensity Automatically. 2 Buttons Can Be Self-Defined					
	For Most Commonly Used Objecives, Press Green					
	Button Can Swap Between Them					
	With Slot For Polarizing Compensator Slider Or DIC	•	•	•	•	
	Slider					
	Protect Cover For Nosepiece Holes	•	•	•	•	A54.1091-C
	NBD 5x/0.15, W.D.20mm, No Cover Glass	•	•	•	•	A5M.1091-5
Infinity Plan	BD 10x/0.3, W.D.11mm, No Cover Glass	•	•	•	•	A5M.1091-10
BF/DF Semi-	BD 20x/0.45, W.D.3mm, No Cover Glass	0	0	0	0	A5M.1091-20A
APO	BD LWD 20x/0.4, W.D.12mm, No Cover Glass	•	•	•	•	A5M.1091-20
Metallurgical	BD LWD 50x/0.5, W.D.10.6mm, No Cover Glass	•	•	•	•	A5M.1091-50
Objective	BD LWD 100x/0.8, W.D.3.5mm, No Cover Glass	•	•	•	•	A5M.1091-100
NIS45	BD 50x/0.8, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-50
BF/DF APO	BD 100x/0.9, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-100

[				1	1	
	4" Working Stage, Size 210x170mm, Move Range 4"x4" (102x102mm), Right Handle Optional, Hard Oxide Surface, Y Can Be Locked	•	•	•	•	A54.1093-L
For Metallurgical	4" Working Stage, Size 210x170mm, Move Range 4"x4" (102x102mm), Left Handle Optional, Hard Oxide Surface, Y Can Be Locked	0	0	0	0	A54.1093-R
Microscope	Round Crystal Holder, For 2",3",4" Diameter Crystal	•	•	•	•	A54.1093-H1
	Wafer Holder	•	•	•	•	A54.1093-H2
	Glass Substrate, Size 145(X)x152(Y)mm	•	•	•	•	A54.1093-H3
	Metal Stage Plate, Size 145(X)x152(Y)mm	•	•	•	•	A54.1093-H4
Condenser	LWD Condenser, N.A.0.65, W.D.10.2mm, Center	_			_	A5M.1095
Jondensei	Adjustable, Dual Condenser Lifting Handle	•	•	•	•	ASIVI. 1095
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm,Can Exchange Hand Wheel Between Left/Righ, Max Sample Space 76mm	•	•	•	•	
	Max Sample Space 56mm	-	•		•	
	Reflect Epi Metallurgical Illuminator, Turret Disc With 6					A 5NA 4000
	Positions For Filter Block, Kohler Illumination	•	•	•	•	A5M.1090
Reflect	12V100W Halogen Lamp Housing	•	•	•	•	A5M.1090-100W
Light Source	BF/DF View Block	•	•	•	•	A5M.1090-BD
	BF1 View Block	•	•	•	•	A5M.1090-B1
	BF2 View Block	•	•	•	•	A5M.1090-B2
	Filter Blue	•	•	•	•	A56.1093-B
Filter For Reflect	Fibler Green	•	•	•	•	A56.1093-G
Light Source	Filter Yellow	•	•	•	•	A56.1093-Y
	Filter Forested	•	•	•	•	A56.1093-F
Polarizing	Polarizer For Reflect Light Source	•	•	•	•	A5P.1090-RP
rolarizing	Analyzer For Reflect Light Source	•	•	•	•	A5P.1090-RA
DIC	Blank Slider	•	•	•	•	A5P.1090-E
	Nomarski DIC Slider For Reflect Light Source Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	•	•	•	•	A5M.1090-DIC A56.1090- 12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body		0		0	A56.1090-3WLED
Transmit Light Source	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy		•		•	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected A13.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To A54.1091-6C Coded Nosepiece At Same Time		0		•	A56.1090-AB
	Filter Holder On Base, Can Hold 3 Filters		•		•	A56.1092-H
	Filter LBD		•		•	A56.1092-LBD
Filter For	Filter Green		•		•	A56.1092-G
Transmit Light	Filter Yellow		•		•	A56.1092-Y
Source	Filter ND6		•		•	A56.1092-ND6
	Filter ND25		•		•	A56.1092-ND25
	Eyepiece Adapter Dia.23.2mm	0	0	0	0	A55.1090-E
Adapter	C-Mount 1.0x	0	0	0	0	A55.1090-1.0x
	C-Mount 0.5x	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	A30.1090
	Working Stage Holder Bracket	•	•	•	•	A54.1096
	Adapter To Adjust Eye Position	0	0	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	0	0	A54.1096-A2
	Immersion Oil	0	0	0	0	A50.1090-01
Other	Allen Wrench	•	•	•	•	A50.1090-02
Accessories	Power Cord	•	•	•	•	A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer USB Cable	0	0	0	0	A50.1090-07 A50.1090-08

### A13.1093 Metallurgical Microscope, Semi-Auto, Reflect, Transmit/Reflect, Semi-APO, BF/DF, DIC, PL

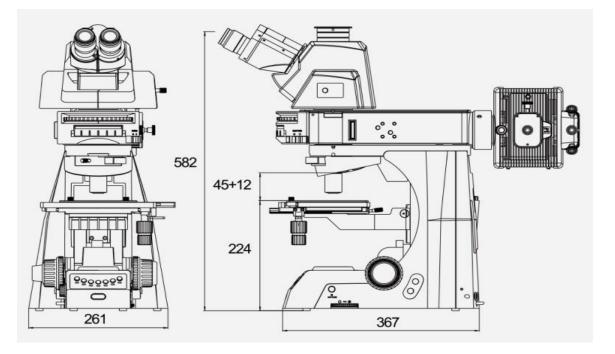




Research Level Metallurgical Microscope Semi-Auto, With Reflect, Transmit/Reflect Light Manual 6 Holes Nosepiece With NIS45 Infinity Plan Semi-APO BD Objective 5x10x LWD 20x50x100x 4" Working Stage, Size 210x170mm, Move Range 102x102mm, With Round Crystal Holder, Wafer Holder Etc.

FIE

Reflect 12V100W Halogen Illuminator, Bright Field, Polarizing, DIC View Transmit 12V100W Halogen Kohler Illumination, Auto Adjust Brightness, ECO Function



A13.1091	A13.1093 Metallurgical Microscope, BF/DF, DIC, PL,	A13	1091	A13.	1093	Cata.No.
	ΑΡΟ	-R	-TR		-TR	
Optical System	NIS45 Infinite Optical System	•	•	•	•	
	Bright Field	•	•	•	•	
Observation	Dark Field	•	•	•	•	
Method	Polarizing	•	•	•	•	
	DIC	•	•	•	•	
	BH Manual Body + Halogen Illumination.	•	•			A54.1090-BH
	BL Manual Body + LED Illumination.	0	0			A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.					
Main Dadu	Auto Nosepiece + Auto Condenser + Auto Brightness			•	•	A54.1090-ATH
Main Body	Adjust					
	ATL Semi-Auto Body + LED Illumination.					
	Auto Nosepiece + Auto Condenser + Auto Brightness			0	0	A54.1090-ATL
	Adjust					
	Seidentopf Binocular Head, Inclined 30°,					A53.1090-B
	Interpupillary Distance 47-78mm	0	0	0	0	АЭЭ. 1090-В
	Seidentopf Trinocular Head, Inclined 30°,					
Head	Interpupillary Distance 47-78mm,	0	0	0	0	A53.1090-T
пеац	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
	Ergo Tilting Trinocular Head, Inclination 0°~35°,					
	Interpupillary Distance 47-78mm,	•	•	•	•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100					
	SW10x/25mm, High Eyepoint, Diopter Adjustable,				••	A51.1090-1025
	Dia.30mm	••	••	••	••	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable,	0		0	0	A51.1090-1022
	Dia.30mm	0	0	0	0	A31.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A51.1090-1516
	Dia.30mm					A31.1090-1310
	WF20x/12mm, High Eyepoint, Diopter Adjustable,	0	0	0	0	A51.1090-2012
	Dia.30mm					AJ1.1090-2012
	Manual Nosepiece, Sextuple, Backward	•	•			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto	0	0			A54.1091-6C
	Brightness Adjust					AJ4.1091-0C
	Auto Coded Nosepiece, Sextuple, Backward,					
	Motorized Switch Objectives, Controled By:					
	1. Shortcut Button On Right Side Of Base, Can Switch 2					
	Preseted Objectives Quickly					
Nosepiece	2. Remote Control Pad In Front Of Base, Press Each			•	•	A54.1091-6A
	Button To Switch Objectives And Adjust The Light					
	Intensity Automatically. 2 Buttons Can Be Self-Defined					
	For Most Commonly Used Objecives, Press Green					
	Button Can Swap Between Them					
	With Slot For Polarizing Compensator Slider Or DIC	•	•	•	•	
	Slider					
	Protect Cover For Nosepiece Holes	•	•	•	•	A54.1091-C
	NBD 5x/0.15, W.D.20mm, No Cover Glass	•	•	•	•	A5M.1091-5
Infinity Plan	BD 10x/0.3, W.D.11mm, No Cover Glass	•	•	•	•	A5M.1091-10
BF/DF Semi-	BD 20x/0.45, W.D.3mm, No Cover Glass	0	0	0	0	A5M.1091-20A
APO	BD LWD 20x/0.4, W.D.12mm, No Cover Glass	•	•	•	•	A5M.1091-20
Metallurgical	BD LWD 50x/0.5, W.D.10.6mm, No Cover Glass	•	•	•	•	A5M.1091-50
Objective	BD LWD 100x/0.8, W.D.3.5mm, No Cover Glass	•	•	•	•	A5M.1091-100
NIS45	BD 50x/0.8, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-50
BF/DF APO	BD 100x/0.9, W.D.1mm, No Cover Glass	0	0	0	0	A5M.1092-100

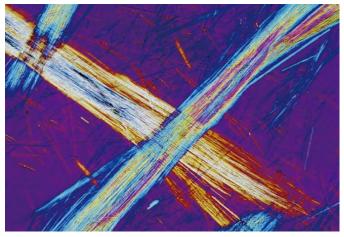
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	4" Working Stage, Size 210x170mm, Move Range 4"x4" (102x102mm), Right Handle Optional, Hard Oxide Surface, Y Can Be Locked	•	•	•	•	A54.1093-L
For Metallurgical	4" Working Stage, Size 210x170mm, Move Range 4"x4" (102x102mm), Left Handle Optional, Hard Oxide Surface, Y Can Be Locked	0	0	0	0	A54.1093-R
Microscope	Round Crystal Holder, For 2",3",4" Diameter Crystal	•	•	•	•	A54.1093-H1
	Wafer Holder	•	•	•	•	A54.1093-H2
	Glass Substrate, Size 145(X)x152(Y)mm	•	•	•	•	A54.1093-H3
	Metal Stage Plate, Size 145(X)x152(Y)mm	•	•	•	•	A54.1093-H4
Condenser	LWD Condenser, N.A.0.65, W.D.10.2mm, Center	_			_	A5M.1095
Jondensei	Adjustable, Dual Condenser Lifting Handle	•	•	•	•	ASIVI. 1095
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm,Can Exchange Hand Wheel Between Left/Righ, Max Sample Space 76mm	•	•	•	•	
	Max Sample Space 56mm	-	•		•	
	Reflect Epi Metallurgical Illuminator, Turret Disc With 6					A 5NA 4000
	Positions For Filter Block, Kohler Illumination	•	•	•	•	A5M.1090
Reflect	12V100W Halogen Lamp Housing	•	•	•	•	A5M.1090-100W
Light Source	BF/DF View Block	•	•	•	•	A5M.1090-BD
	BF1 View Block	•	•	•	•	A5M.1090-B1
	BF2 View Block	•	•	•	•	A5M.1090-B2
	Filter Blue	•	•	•	•	A56.1093-B
Filter For Reflect	Fibler Green	•	•	•	•	A56.1093-G
Light Source	Filter Yellow	•	•	•	•	A56.1093-Y
	Filter Forested	•	•	•	•	A56.1093-F
Polarizing	Polarizer For Reflect Light Source	•	•	•	•	A5P.1090-RP
rolarizing	Analyzer For Reflect Light Source	•	•	•	•	A5P.1090-RA
DIC	Blank Slider	•	•	•	•	A5P.1090-E
	Nomarski DIC Slider For Reflect Light Source Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	•	•	•	•	A5M.1090-DIC A56.1090- 12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body		0		0	A56.1090-3WLED
Transmit Light Source	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy		•		•	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected A13.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To A54.1091-6C Coded Nosepiece At Same Time		0		•	A56.1090-AB
	Filter Holder On Base, Can Hold 3 Filters		•		•	A56.1092-H
	Filter LBD		•		•	A56.1092-LBD
Filter For	Filter Green		•		•	A56.1092-G
Transmit Light	Filter Yellow		•		•	A56.1092-Y
Source	Filter ND6		•		•	A56.1092-ND6
	Filter ND25		•		•	A56.1092-ND25
	Eyepiece Adapter Dia.23.2mm	0	0	0	0	A55.1090-E
Adapter	C-Mount 1.0x	0	0	0	0	A55.1090-1.0x
	C-Mount 0.5x	0	0	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	0	0	A30.1090
	Working Stage Holder Bracket	•	•	•	•	A54.1096
	Adapter To Adjust Eye Position	0	0	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	0	0	A54.1096-A2
	Immersion Oil	0	0	0	0	A50.1090-01
Other	Allen Wrench	•	•	•	•	A50.1090-02
Accessories	Power Cord	•	•	•	•	A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer USB Cable	0	0	0	0	A50.1090-07 A50.1090-08

### A13.1095 Metallurgical Microscope, Full Auto, Reflect, Transmit/Reflect, Semi-APO, BF+DF+DIC+PL

**OPTO-EDU** 

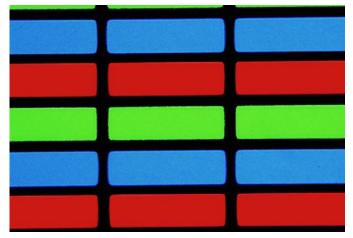
#### Research Level Metallurgical Microscope Semi-Auto, With Reflect, Transmit/Reflect Light Manual 6 Holes Nosepiece With NIS45 Infinity Plan Semi-APO BD Objective 5x10x LWD 20x50x100x 4" Working Stage, Size 210x170mm, Move Range 102x102mm, With Round Crystal Holder, Wafer Holder Etc. Reflect 12V100W Halogen Illuminator, Bright Field, Polarizing, DIC View

Transmit 12V100W Halogen Kohler Illumination, Auto Adjust Brightness, ECO Function



Asbestos, Polarized Light

**Polarizing** Light generated by a set of filters (analyzer and polarizer). The characteristics of the sample directly affect the intensity of the light reflected through the system. It is suitable for metallurgical structures (i.e., growth pattern of graphite on nodular casting iron), minerals, LCDs and, semiconductor materials.



#### LCD, Transmitted Light Observation

**Bright Field** Transmit & Reflect View. For transparent specimen such as LCDs, plastics, and glass materials, true transmitted light observation is available by using a variety of condensers. Examining specimen in transmitted brightfield and polarized light can be accomplished all in one convenient system.

A13.1095 Meta	llurgical Microscope, Full Auto, Reflect, Transmit/Reflect, Semi-	A13.	1095	Cata.No.
	APO, BF+DF+DIC+PL	-R	-TR	
Optical System	NIS45 Infinite Optical System	•	•	
	Bright Field	•	•	
Observation	Dark Field	•	•	
Method	Polarizing	٠	•	
	DIC	•	•	
	BH Manual Body + Halogen Illumination.			A54.1090-BH
	BL Manual Body + LED Illumination.			A54.1090-BL
Main Body	ATH Semi-Auto Body + Halogen Illumination.	•		A54.1090-ATH
Main Body	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust	•		//04.1000 //111
	ATL Semi-Auto Body + LED Illumination.	0	0	A54.1090-ATL
	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust	0		7.04.1000 / (TE
	Seidentopf Binocular Head, Inclined 30°,	0	0	A53.1090-B
	Interpupillary Distance 47-78mm	0		7.00.1000 B
	Seidentopf Trinocular Head, Inclined 30°,			
Head	Interpupillary Distance 47-78mm,	0	0	A53.1090-T
loud	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100			
	Ergo Tilting Trinocular Head, Inclination 0°~35°,			
	Interpupillary Distance 47-78mm,	•	•	A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100			-
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	••		A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0		A51.1090-1022
Eyepiece	EW12.5x/16mm, High Eyepoint	0		A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0		A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	A51.1090-2012
	Manual Nosepiece, Sextuple, Backward			A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto Brightness Adjust			A54.1091-6C
Nosepiece	Auto Coded Nosepiece, Sextuple, Backward, Motorized Switch Objectives, Controled By: 1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted Objectives Quickly 2. Remote Control Pad In Front Of Base, Press Each Button To Switch Objectives And Adjust The Light Intensity Automatically. 2 Buttons Can Be Self-Defined For Most Commonly Used Objecives, Press Green Button Can Swap Between Them With Slot For Polarizing Compensator Slider Or DIC Slider	•	•	A54.1091-6A
	Protect Cover For Nosepiece Holes	•		A54.1091-C
	BD 5x/0.15, W.D.20mm, No Cover Glass	•		A54.1091-C
Infinity Plan	BD 10x/0.3, W.D.11mm, No Cover Glass	•		A5M.1091-10
BF/DF Semi-	BD 10X/0.3, W.D. 1 mini, No Cover Glass BD 20x/0.45, W.D.3mm, No Cover Glass	•		A5M.1091-10
APO	BD 20X/0.45, W.D.Shini, No Cover Glass BD LWD 20x/0.4, W.D.12mm, No Cover Glass	•		A5M.1091-20A
Metallurgical	BD LWD 20x/0.4, W.D. 121111, NO Cover Glass BD LWD 50x/0.5, W.D.10.6mm, No Cover Glass	•		A5M.1091-20
Objective	LWD 100x/0.8, W.D.3.5mm, No Cover Glass	•	-	A5M.1091-30
NIS45	BD 50x/0.8, W.D.1mm, No Cover Glass			A5M.1091-100
BF/DF APO	BD 30x/0.8, W.D. Imm, No Cover Glass BD 100x/0.9, W.D.1mm, No Cover Glass	0		A5M.1092-50
	Motorized X/Y/Z Working Stage, Size 275x239x44.5mm, Move Range 125x75mm, Minimum step length 0.1um, repeat positioning accuracy ±1.5um, maximum speed 20nm/s, soft limit + mechanical limit + photoelectric switch limit, Z axis repeat positioning accuracy average: ±1.5um, near focus ±0.1um, Z Maximum axis speed 10r/s, three-dimensional controllable remote sensing, four-speed speed, USB2.0 & RS232 communication interface, communication speed 9600, Including Control Stick, Controller Box	•		A54.1095

Condenser	LWD Condenser, N.A.0.65, W.D.10.2mm, Center Adjustable, Dual Condenser Lifting Handle	•	•	A5M.1095
	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm,			
Focusing	Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke	•		
	0.1mm,Can Exchange Hand Wheel Between Left/Righ,	•	•	
	Max Sample Space 76mm	•		
	Max Sample Space 76mm Max Sample Space 56mm	•	•	
	Reflect Epi Metallurgical Illuminator, Turret Disc With 6			
Reflect Light Source	Positions For Filter Block, Kohler Illumination	•	•	A5M.1090
	12V100W Halogen Lamp Housing	•	•	A5M.1090- 100W
	BF/DF View Block	•	•	A5M.1090-BD
	BF1 View Block	•	•	A5M.1090-B1
	BF2 View Block	•	•	A5M.1090-B2
	Filter Blue	•	•	A56.1093-B
Filter For Reflec		•	•	A56.1093-G
Light Source	Filter Yellow	•	•	A56.1093-Y
	Filter Forested	•	•	A56.1093-F
	Polarizer For Reflect Light Source	•	•	A5P.1090-RP
Polarizing	Analyzer For Reflect Light Source	•	•	A5P.1090-RA
	Blank Slider	-	•	A5P.1090-RA
DIC		•	-	A5P.1090-E
	Nomarski DIC Slider For Reflect Light Source	•	•	
	Transmit Kohler Illumination, Brightness Adjustable,		•	A56.1090-
	12V100W Halogen, External Lamp House			12V100W
	Transmit Kohler Illumination, Brightness Adjustable,		0	A56.1090-
<b>-</b> .,	3W S-LED, Built-in Main Body			3WLED
Transmit	ECO Function Support Auto Power Off After 30 Mins From		•	A56.1090-ECO
Light Source	Operator Leave To Save Energy			
	Auto Brightness Adjust, Brightness For Each Objective Can Be			
	Memorized And Restored When Objective Is Selected		•	A56.1090-AB
	A13.1095 Upgradeable To Auto Brightness Adjust, Must Upgrade			
	To A54.1091-6C Coded Nosepiece At Same Time			
	Filter Holder On Base, Can Hold 3 Filters		•	A56.1092-H
Filter For	Filter LBD		•	A56.1092-LBD
Transmit Light	Filter Green		•	A56.1092-G
Source	Filter Yellow		•	A56.1092-Y
Course	Filter ND6		•	A56.1092-ND6
	Filter ND25		•	A56.1092-ND25
	Eyepiece Adapter Dia.23.2mm	0	0	A55.1090-E
Adapter	C-Mount 1.0x	0	0	A55.1090-1.0x
	C-Mount 0.5x	0	0	A55.1090-0.5x
Software	NOMIS Basic Image Processiing Software	0	0	A30.1090
	Working Stage Holder Bracket	•	٠	A54.1096
	Adapter To Adjust Eye Position	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	A54.1096-A2
	Immersion Oil	0	0	A50.1090-01
	Allen Wrench	•	•	A50.1090-02
Other	Power Cord	•	•	A50.1090-03
Accessories	Short Eye Cover, For Eyepiece	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	A50.1090-07
				A50.1090-07
	USB Cable	0	0	

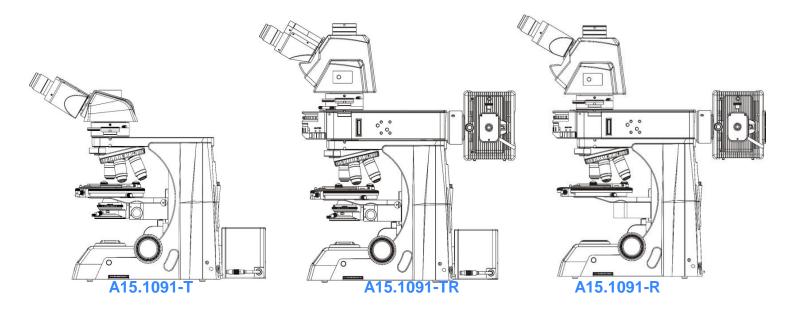
## A15.1091 Polarizing Microscope, Semi-APO, Transmit & Reflect Light







Research Level Polarizing Microscope, Manual, Transmit/Reflect, Semi-APO Extra Wide Eyepiece EW10x/25mm Dia.30mm Diopter Adjustable With Lock Pin Quintuple Nosepiece Center Adjustable, NIS60 Infinity Plan Strainless Semi-APO PL5x10x20x50x100x Round Stage Dia.190mm, With Attachable Moving Stage Range 30x30mm Transmit ECO Kohler Illumination 12V100W Halogen, Reflect 12V100W Halogen

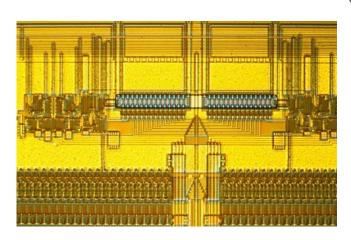


		A15	1091		
	A15.1091 Series Polarizing Microscope	-T	-TR	-R	Cata.No.
Optical System	NIS60 Infinite Optical System				
Observation Method	Bright Field				
	Dark Field,	0	0	0	
	Polarizing				
	Phase Contrast	0	0	0	
	Flourescent	0	0	0	
	DIC	0	0	0	
	BH Manual Body + Halogen Illumination.	•	•		A54.1090-BH
	BL Manual Body + LED Illumination.	0	0	0	A54.1090-BL
	ATH Semi-Auto Body + Halogen Illumination.	0			
	Auto Nosepiece + Auto Condenser + Auto Brightness	0	0	0	A54.1090-ATH
Main Body	Adjust	0			
	ATL Semi-Auto Body + LED Illumination.				
	Auto Nosepiece + Auto Condenser + Auto Brightness	0	0	0	A54.1090-ATL
	Adjust	0			
	Seidentopf Binocular Head, Inclined 30°,				
	Interpupillary Distance 47-78mm	0	0	0	A53.1090-B
	Seidentopf Trinocular Head, Inclined 30°,				
	Interpupillary Distance 47-78mm,	0	0	0	A53.1090-T
Head	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100	U			100.1000 1
	Ergo Tilting Trinocular Head, Inclination 0°~35°,				
	Interpupillary Distance 47-78mm,				A53.1090-TT
	3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100	•	-		A33.1030-11
	SW10x/22mm, High Eyepoint, Diopter Adjustable,				
	Dia.30mm	$\bullet$			A51.1090-1022
	SW10x/22mm, With Scale Cross, With Locating Pin, For				A51.1090-
	Polarizing	$\bullet$			1022S
	SW10x/22mm, With Cross Hair, With Locating Pin, For				A51.1090-
	Polarizing	0	0	0	1022C
Eyepiece	SW10x/22mm, With Grid Plate, With Locating Pin, For				A51.1090-
Lyepiece	Polarizing	0	0	0	1022G
	EW12.5x/16mm, High Eyepoint	0	0	0	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable,	0			
	Dia.30mm	$\bigcirc$	0	Ο	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable,				
	Dia.30mm	0	0	0	A51.1090-2012
Nosepiece	Manual Nosepiece, Quintuple, Backward, Center				
	Adjustable	$\bullet$			A54.1091-5M
	With Slot For Polarizing Compensator Slider Or DIC Slider				
		•			AE4 1001 C
	Protect Cover For Nosepiece Holes				A54.1091-C A5P.1091-5
NIS60	5x/0.15, W.D.20mm, Semi-APO, PL, No Cover Glass				
Strain-Free	10x/0.3, W.D.11mm, Semi-APO, PL, No Cover Glass				A5P.1091-10
Semi-APO	20x/0.45, W.D.3.0mm, Semi-APO, PL, No Cover Glass				A5P.1091-20
Infinity Plan	50x/0.8, W.D.1.0mm, Semi-APO, PL, No Cover Glass				A5P.1091-50
Objective	100x/0.9, W.D.1.0mm, Semi-APO, PL, No Cover Glass	•	•	•	A5P.1091-100
	High-precision Pre-Adjusted Revolving Round Stage,				
	Diameter 190mm, Center Adjustable, 360° Scale, Minium	$\bullet$			A54.1094
working Stage	Division 1°, Minium Reading 6′ by Means of Vernier				
	Scale, 45° Click Stop Knob.	•	-		
	Attachable Moving Stage, Moving Range 30x30mm	•			A54.1094-R
Condenser	Swing-Out Condenser NA0.9/0.25	•			A56.1091-S
	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm,				
Focusing	Focusing Range 35mm, Coarse Stroke 37.7mm, Fine				
	Stroke 0.1mm, Can Exchange Hand Wheel Between	-			
	Left/Righ				

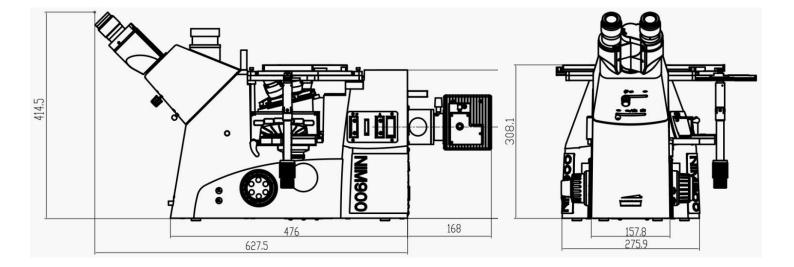
	Transmit Kohler Illumination, Brightness Adjustable,				
Transmit Light Source	12V100W Halogen, External Lamp House		•	-	A56.1090-
	ECO Function Support Auto Power Off After 30 Mins	-	_		12V100W
	From Operator Leave To Save Energy				
	Filter Holder On Base, Can Hold 3 Filters	•	•	-	A56.1092-H
	Filter LBD	•	•	-	A56.1092-LBD
	Filter Green		•	-	A56.1092-G
	Filter Yellow	•		-	A56.1092-Y
	Filter ND6	•	•	-	A56.1092-ND6
	Filter ND25	•		-	A56.1092-ND25
	Transmit Polarizer, Attached To Condenser Bottom, 360° Rotatable	•	•	-	A5P.1090-TP
	Reflect Polarizer Slide, Insert In Slot of Reflect Light Source	-	•	•	A5P.1090-RP
	Reflect/Transmit Analyzer Slide, 360° Dial Rotate,	•	•		A5P.1090-TRA
Polarizing Attachment	Minimum Scale Reading 0.1°		-		
	Bertrand Lens Intermediate Unit, With Slot For Compensator Slide	•	•	•	A5P.1090-CB
	λ Compensator Slide				Α5Ρ.1090-Cλ
	λ1/4 Compensator Slide				A5P.1090-C1/4
	Quartz Wedge Slide	$\bullet$			A5P.1090-CQ
	Blank Slide				A5P.1090-CS
	Reflect Epi Polarizing Illuminator, Turret Disc With 6 Positions For Filter Block, Kohler Illumination	-	•	•	A5P.1090
	12V100W Halogen Lamp Housing	-			A5P.1090-100V
Reflect	BF1 View Block	-			A5P.1090-B1
	BF2 View Block	-			A5P.1090-B2
Polarizing Light Source	Circularly Polarized Light Block	-			A5P.1090-CP
Light Source	Filter Blue	-			A56.1093-B
	Filter Green	-			A56.1093-G
	Filter Yellow	-	$\bullet$		A56.1093-Y
	Filter Forested	-			A56.1093-F
	Eyepiece Adapter Dia.23.2mm	0	0	Ο	A55.1090-E
Adapter	C-Mount 1.0x	0	0	Ο	A55.1090-10
	C-Mount 0.5x	0	0	Ο	A55.1090-05
	Working Stage Holder Bracket				A54.1096
	Adapter To Adjust Eye Position	0	0	0	A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	0	A54.1096-A2
	Immersion Oil	0	0	0	A50.1090-01
Other Accessories	Allen Wrench				A50.1090-02
	Power Cord				A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	0	A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	0	A50.1090-07
	USB Cable	0	0	0	A50.1090-08

### A13.1096 Inverted Metallurgical Microscope, Semi-APO, BF/DF/PL/FL/DIC





Research Level Inverted Metallurgical Microscope For BF/DF/PL/FL/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infintiy Plan BF/DF Sem-APO 5x10x20x APO 50x100 Triple Layer Working Stage Moving Range 130x85mm, With 3 Holder LWD Condensor N.A.0.55 W.D.26mm, With 6 Holes Phase Contrast Disc Reflect 12V100W Halogen Light Support Fluorescent Illumination



OPTO-EDU

A13	.1096 Research Level Inverted Fluorescent Microscope		Cata.No.
Optical System	NIS60 Infinite Optical System	•	
	Bright Field	٠	
Observation	Dark Field	0	
Method	Polarizing	0	
Method	Flourescent	0	
	DIC	0	
	Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-		
Head	78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in	٠	
	Bertrand Lens Which Can Be Used As Centering Telescope		
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	•	A51.1090-1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	A51.1090-2012
Media Lens	Built-in Media Lens Turret, Under Nosepiece, 1.0x, 1.5x Switchable	٠	
Nosepiece	Manual Sextuple Nosepiece, With DIC Slot	٠	
NIS45 N-MPFN	5x/0.15, W.D.20mm, No Cover Glass, Semi-APO	•	A5M.1091-5
Infinity Plan	10x/0.3, W.D.11mm, No Cover Glass, Semi-APO	•	A5M.1091-10
BF/DF	20x/0.45, W.D.3mm, No Cover Glass, Semi-APO	•	A5M.1091-20
Semi-APO/APO	50x/0.8, W.D.1mm, No Cover Glass, APO	•	A5M.1092-50
Metallurgical Objective	100x/0.9, W.D.1mm, No Cover Glass, APO	٠	A5M.1092-100
	Three Layer Mechnical Stage, Size 340x230mm, Moving Range 130x85mm, Flexible Knob, Available For Different Size Small Stage Plate, Can Hold Max Weight 30Kgs	•	A54.1098
Working Stage	Motorized X/Y Axies (Optical Grating Type) Mechnical Stage, Size 325x144mm, Moving Range 130x100mm, Max Speed 10mm/s, Resloution 0.1um, Repeat Accuracy +/-0.5um, Available For Different Size Small Stage Mounted on Top Layer, With Separate Communication/Main Control Box & Stick	0	A54.1098-M
	Metal Plate Dia.20mm	•	A54.1098-M20
	Metal Plate Dia.28mm	•	A54.1098-M28
	Metal Plate Water Drop Shape	•	A54.1098-MW
	Coaxial Coarse & Fine Focusing, Focusing Range 9mm (Up 2mm, Down 7mm), Coarse Stroke 2mm, Fine Stroke 0.2mm	•	
Focusing	Motorized Z Axies (Optical Grating Type) Focusing System, Focusing Range 9mm (Up 7mm, Down 2mm), Focusing Resloution 0.02um With Optical Grating, Movement Repeat Positioning Accuracy +/-0.1um, Prevent Stage Fall Down Function	0	
	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between:		
Adapter	Trinocular Port Switch E100:P0/E20:P80/E0:P100 Left Port C-Mount 1.0x E0:P100 Right Port C-Mount 1.0x E20:P80	•	
	C-Mount 0.4x	0	A55.1095-04
	C-Mount 0.5x	0	A55.1095-05
	C-Mount 1.0x	•	A55.1095-10
Multi Function	Multi Function Turret Under Nosepice, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast, Polarizing, Fluorescent View,	•	
Turret	Turning The Disc To Easily Switch Observation Methods	-	
Dark Field	Dark Field Block, Put In Multi Function Turret, For Reflect Light Source	0	A5D.1098
	Polarizer Light Block, Put In Multi Function Turret	0	A5P.1098-PL
		0	
Polarizing	Circularly Polarized Light Block, Put In Multi Function Turret	0	A5P.1098-CP

	DIC Slider 5x-20x, Insert Into Slot On Nosepiece	0	A5C.1097-S520
DIC	DIC Slider 50x-100x, Insert Into Slot On Nosepiece	0	A5C.1097-
	Die Slider 50x-100x, Inselt Into Slot Off Nosepiece	0	S50100
	12V100W Halogen Kohler Illumination, Brightness Adjustable	•	A56.1095-
		•	12V100W
	Large Filter Holder Slide With 3 Holes	•	A56.1095-LS
Reflect	Field Diaphram Slide, Center Adjustable,	•	A56.1095-FS
Light Soruce	Small Empty Slide	•	A56.1095-ES
	Aperture Diaphragm Slide	•	A56.1095-AS
	ND6 Filter	•	A56.1095-ND6
	ND25 Filter	•	A56.1095-ND25
	100W Mercury HBO Fluorescent Light House,		A5F.1095-
	Intelligent Power Supply Box	0	100W
	Protect Barrier For UV Light		10000
Reflect	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable	0	A5F.1095-
Fluorescent	By Control Box	0	10WLED
Light Soruce	Fluorescent Filter B Block, Put In Multi Function Turret	0	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	A5F.1095-V
Software	NOMIS Basic Image Processiing Software	0	A30.1090
Note:"  "In Table	Is Standard Outfits,"o" Is Optional Accessories "-" Is Unavailable		

### A14.1096 Inverted Laboratory Microscope, Semi-Auto, Semi-APO, BF+PH

#### OPTO-EDU

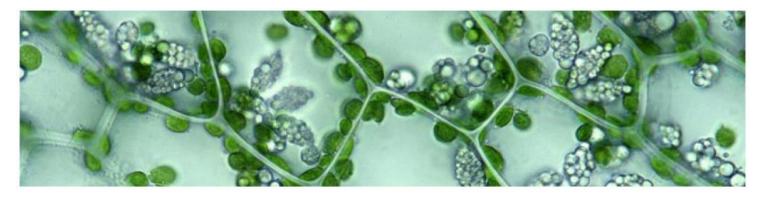


**Flexible Transmit Illuminator** With retroverted Illuminator, thereby ensuring large space for operation and

Research Level Inverted Biological Microscope For BF/PH/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infinity Plan Sem-APO Phase Contrast Objective 10x20x40x LWD Condensor N.A.0.55 W.D.26mm, With 6 Holes Phase Contrast Disc Transmit 12V100 Halogen Flexible Illuminator Can Retrovert From Optical Path

#### Bright Field Observation

Unique infinity optical system, combined with semi-apochromatic fluorescent objective lens, effectively eliminates field curvature, chromatic aberration, spherical aberration, coma and other imaging problems, the image is brighter, all magnifications can achieve higher super-resolution and flat type



Resear	ch Level Inverted Biological Microscope	A14.10 96	A14.10 97	A16.10 96	A16.10 97	A16.10 98	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	
	Dark Field	-	-	0	0	0	
Observati	Phase Contrast	•	•	•	•	•	
on Method	Polarizing	0	0	0	0	0	
	Flourescent	0	0	•	•	•	
	DIC	0	0	0	0	0	
LCD Screen	4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition. Show Objectives In Use In Nosepiece Show Cubes In Use In Multi Function Turret Brightness Memorize & Restore Function	-	•	-	•	0	
Head	Touch To Adjust Brightness Touch To Set The System Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in Bertrand Lens Which Can Be Used	•	•	•	•	•	
	As Centering Telescope SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm SW10x/22mm, High Eyepoint, Diopter	0	0	0	0	0	A51.1090- 1025 A51.1090-
	Adjustable, Dia.30mm	•	•	•	•	•	1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 2012
Media	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	•	
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
PH Infinity	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0- 2mm,	•	•	•	•	•	A5C.1098-20
Plan Semi-APC Phase	With Built-in Correct Ring 40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Contrast Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm, With Built-in Correct Ring	0	0	0	0	0	A5C.1098-60

		,,	,		1	1	
	Coaxial Coarse & Fine Focusing, Focusing						
	Range 9mm (Up 7mm, Down 2mm), Coarse	•	•	•	•	-	
	Stroke 2mm, Fine Stroke 0.2mm		L			L	
	Motorized Z Axies (Optical Grating Type)						
Focusing	Focusing System, Focusing Range 9mm (Up			l			
	7mm, Down 2mm), Focusing Resloution			l		-	
	0.02um With Optical Grating, Movement	-	-	-	-	-	
	Repeat Positioning Accuracy +/-0.1um,			l			
	Prevent Stage Fall Down Function			l			
	Three Layer Mechnical Stage, Moving					<u> </u>	
	Range 130x85mm, Flexible Knob, Available			l			
	For Different Size Small Stage Mounted on		●	•	•	-	A54.1098
	Top Layer			l			
				ļ		+	
Mortine	Motorized X/Y Axies (Optical Grating Type)			l			
Working	Mechnical Stage, Size 325x144mm, Moving			l			
Stage	Range 130x100mm, Max Speed 10mm/s,			l			
	Resloution 0.1um, Repeat Accuracy +/-	_	_	-	-	•	A54.1098-M
	0.5um,			l			
	Available For Different Size Small Stage			l			
	Mounted on Top Layer, With Separate			l			
	Communication/Main Control Box & Stick		ļ]			ļ	
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
Working	Dia.54mm Holder For Petri Dish	•	•	•	•	•	A54.1098-54
0	96 Holes Plate Holder	•	•	•	•	•	A54.1098-96
Stage	Terasaki Holder	•	•	•	•	•	A54.1098-TH
L	Universal Holder	•		•	•	•	A54.1098-UH
	Long Working Distance Turret Condenser,						
	N.A.0.55, W.D.26mm,	_		-	-		100
	With 6 Positions For Phase Contrast	•	•	•	•	-	A56.1098
	Annulus DIC Annulus And Bright Field View			l			
Condenser	Motorized Long Working Distance Turret					<u> </u>	
	Condenser, N.A.0.55, W.D.26mm, With 6			l			
	Positions For Phase Contrast Annulus, DIC	-	-	-	-	•	A56.1098-M
	Annulus, And Bright Field View			l			
	Annulus, And Bright Field View Multi Function Turret Under Nosepiece, With			ļ			+
				l			
	6 Positions For Cubes Of Bright Field, Dark			-			
	Field, Phase Contrast, Polarizing,	•		•	-	-	
	Fluorescent View, Turning The Disc To			l			
	Easily Switch Observation Methods						
	Coded Multi Function Turret Under			l			
Multi	Nosepiece, With 6 Positions For Cubes Of			l			
Function	Bright Field, Dark Field, Phase Contrast,	-	-	-	•	-	
Function	Polarizing, Fluorescent View, Turning The						
unet	Disc To Easily Switch Observation Methods						
	Motorized Coded Multi Function Turret						
	Under Nosepiece, With 6 Positions For			l			
	Cubes Of Bright Field, Dark Field, Phase			l			
	Contrast, Polarizing, Fluorescent View,	-	-	-	-	•	
	Turning The Disc To Easily Switch			l			
	Observation Methods						
L	Dark Field Block, Put In Multi Function					<u> </u>	
Dark Field	Turret, For Reflect Light Source	0	0	0	0	0	A5D.1098
Polarizing	Polarizer Filter On LWD Turret Condenser	0	0	0	0	0	A5P.1098-P
For							7.01.1090-P
	Analyzer Slide, Insert Into Slot On						A5D 1000 A
Transmit Light	Nosepiece, 360° Rotatable	0	0	0	0	0	A5P.1098-A
Light	•					+	
Polarizing	Polarizer Light Block, Put In Multi Function	0	0	0	0	0	A5P.1098-PL
For Reflect	Turret Circularly Delevized Light Diady Dut in Multi-						
Light	Circularly Polarized Light Block, Put in Multi	0	0	0	0	0	A5P.1098-CP
<b>–</b>	Function Turret			I			

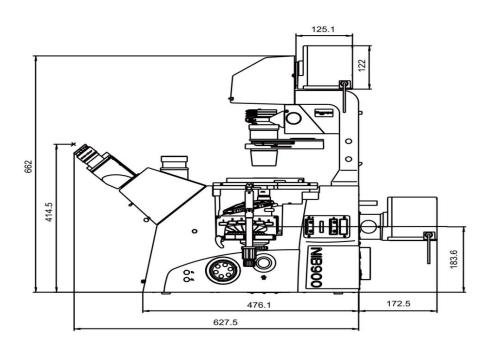
	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	•	•	•	•	•	A5C.1096- 1020
Phase Contrast	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A40
	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A60
	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S40
		0	0				
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S60
Illumniation	Transmit/Reflect Illumination Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	•	•	•	•	•	
Transmit	12V100W Halogen Kohler Illumination, Brightness Adjustable,						4.50.4005
Light	Flexible Illuminator Body Can Retrovert From Optical Path For Large Space of Operation And Sample Exchange	•	•	•	•	•	A56.1095- 12V100W
	10W S-LED Kohler Illumination, Brightness Adjustable	0	0	0	0	0	A56.1095- 10WLED
Reflect	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-LS
Light Source	Field Diaphragm Slide, Center Adjustable,	0	0	•	•	•	A56.1095-FS
	Small Empty Slide	0	0	•	•	•	A56.1095-ES
	Aperture Diaphragm Slide	0	0	•	•	•	A56.1095-AS
	Neutral Filter Reflect 100W Osram Mercury HBO	0	0	•	•	•	A56.1095-NE
	Fluorescent Light House Intelligent Power Supply Control Box With Barrier To Stop/Recover Fluorescent	0	0	•	•	•	A5F.1095- 100W
	Illumination Quickly 10W S-LED Fluorescent Light, 4 Color Bands,						A5F.1095-
Reflect	Brightness Adjustable By Control Box 75W Metal Halide Light Source, Life Time 2000	0	0	0	0	0	10WLED A5F.1095-
Fluorescen t Light	Hours	0	0	0	0	0	75WM
Source	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
Metallurgic al	Upgrade To <u>A13.1096 I</u> nverted Metallurgical Microscope	0	0	0	0	0	<u>A13.1096</u>
Adapter	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: Trinocular Port Switch E100:P0/E20:P80/E0:P100	•	•	•	•	•	
Adapter	Left Port C-Mount 1.0x E0:P100						
Adapter	Right Port C-Mount 1.0x E20:P80						
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x	0	0	0	0	0	A55.1095-04
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x C-Mount 0.5x	0	0	0 0	0 0	0	A55.1095-05
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x					-	

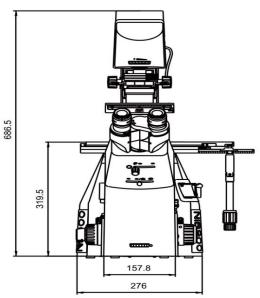
### A14.1097 Inverted Biological Microscope, Semi-Auto, Semi-APO, BF+PH





Research Level Inverted Biological Microscope For BF/PH/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infintiy Plan Sem-APO Phase Contrast Objective 10x20x40x LCD Touch Screen + Coded Sextuple Nosepiece With DIC Slot Transmit 12V100 Halogen Flexible Illuminator Can Retrovert From Optical Path





Resear	ch Level Inverted Biological Microscope	A14.10 96	A14.10 97	A16.10 96	A16.10 97	A16.10 98	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	
	Dark Field	-	-	0	0	0	
Observati	Phase Contrast	•	•	•	•	•	
on Method	Polarizing	0	0	0	0	0	
	Flourescent	0	0	•	•	•	
	DIC	0	0	0	0	0	
LCD Screen	4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition. Show Objectives In Use In Nosepiece Show Cubes In Use In Multi Function Turret Brightness Memorize & Restore Function	-	•	-	•	0	
Head	Touch To Adjust Brightness Touch To Set The System Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in Bertrand Lens Which Can Be Used	•	•	•	•	•	
	As Centering Telescope SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm SW10x/22mm, High Eyepoint, Diopter	0	0	0	0	0	A51.1090- 1025 A51.1090-
	Adjustable, Dia.30mm	•	•	•	•	•	1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 2012
Media	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	•	
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
PH Infinity	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0- 2mm,	•	•	•	•	•	A5C.1098-20
Plan Semi-APC Phase	With Built-in Correct Ring 40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Contrast Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm, With Built-in Correct Ring	0	0	0	0	0	A5C.1098-60

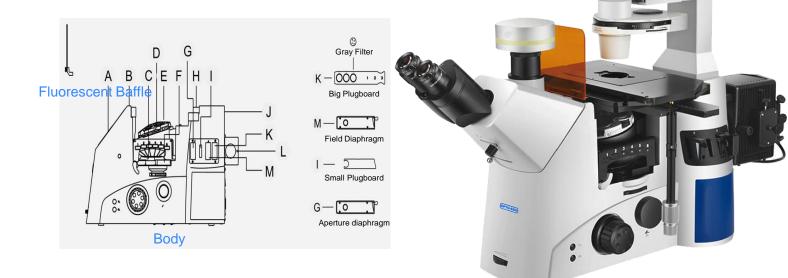
		,,	,		1	1	
	Coaxial Coarse & Fine Focusing, Focusing						
	Range 9mm (Up 7mm, Down 2mm), Coarse	•	•	•	•	-	
	Stroke 2mm, Fine Stroke 0.2mm		L			L	
	Motorized Z Axies (Optical Grating Type)						
Focusing	Focusing System, Focusing Range 9mm (Up			l			
	7mm, Down 2mm), Focusing Resloution			l		-	
	0.02um With Optical Grating, Movement	-	-	-	-	-	
	Repeat Positioning Accuracy +/-0.1um,			l			
	Prevent Stage Fall Down Function			l			
	Three Layer Mechnical Stage, Moving					<u> </u>	
	Range 130x85mm, Flexible Knob, Available			l			
	For Different Size Small Stage Mounted on		●	•	•	-	A54.1098
	Top Layer			l			
				ļ		+	
Mortine	Motorized X/Y Axies (Optical Grating Type)			l			
Working	Mechnical Stage, Size 325x144mm, Moving			l			
Stage	Range 130x100mm, Max Speed 10mm/s,			l			
	Resloution 0.1um, Repeat Accuracy +/-	_	_	-	-	•	A54.1098-M
	0.5um,			l			
	Available For Different Size Small Stage			l			
	Mounted on Top Layer, With Separate			l			
	Communication/Main Control Box & Stick		ļ]			ļ	
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
Working	Dia.54mm Holder For Petri Dish	•	•	•	•	•	A54.1098-54
0	96 Holes Plate Holder	•	•	•	•	•	A54.1098-96
Stage	Terasaki Holder	•	•	•	•	•	A54.1098-TH
L	Universal Holder	•		•	•	•	A54.1098-UH
	Long Working Distance Turret Condenser,						
	N.A.0.55, W.D.26mm,	_		-	-		1000
	With 6 Positions For Phase Contrast	•	•	•	•	-	A56.1098
	Annulus DIC Annulus And Bright Field View			l			
Condenser	Motorized Long Working Distance Turret					<u> </u>	
	Condenser, N.A.0.55, W.D.26mm, With 6			l			
	Positions For Phase Contrast Annulus, DIC	-	-	-	-	•	A56.1098-M
	Annulus, And Bright Field View			l			
	Annulus, And Bright Field View Multi Function Turret Under Nosepiece, With			ļ			+
				l			
	6 Positions For Cubes Of Bright Field, Dark			-			
	Field, Phase Contrast, Polarizing,	•			-	-	
	Fluorescent View, Turning The Disc To			l			
	Easily Switch Observation Methods						
	Coded Multi Function Turret Under			l			
Multi	Nosepiece, With 6 Positions For Cubes Of			l			
Function	Bright Field, Dark Field, Phase Contrast,	-	-	-	•	-	
Function	Polarizing, Fluorescent View, Turning The						
IUIIEL	Disc To Easily Switch Observation Methods						
	Motorized Coded Multi Function Turret						
	Under Nosepiece, With 6 Positions For			l			
	Cubes Of Bright Field, Dark Field, Phase			l			
	Contrast, Polarizing, Fluorescent View,	-	-	-	-	•	
	Turning The Disc To Easily Switch			l			
	Observation Methods						
L	Dark Field Block, Put In Multi Function					<u> </u>	
Dark Field	Turret, For Reflect Light Source	0	0	0	0	0	A5D.1098
Polarizing	Polarizer Filter On LWD Turret Condenser	0	0	0	0	0	A5P.1098-P
For							7.01.1090-P
	Analyzer Slide, Insert Into Slot On						A5D 1000 A
Transmit Light	Nosepiece, 360° Rotatable	0	0	0	0	0	A5P.1098-A
Light	•					+	
Polarizing	Polarizer Light Block, Put In Multi Function	0	0	0	0	0	A5P.1098-PL
For Reflect	Turret Circularly Delevized Light Diady Dut in Multi-						
Light	Circularly Polarized Light Block, Put in Multi	0	0	0	0	0	A5P.1098-CP
<b>–</b>	Function Turret			I			

	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	•	•	•	•	•	A5C.1096- 1020
Phase Contrast	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A40
	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A60
	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S40
		0	0				
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S60
Illumniation	Transmit/Reflect Illumination Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	•	•	•	•	•	
Transmit	12V100W Halogen Kohler Illumination, Brightness Adjustable,						4.50.4005
Light	Flexible Illuminator Body Can Retrovert From Optical Path For Large Space of Operation And Sample Exchange	•	•	•	•	•	A56.1095- 12V100W
	10W S-LED Kohler Illumination, Brightness Adjustable	0	0	0	0	0	A56.1095- 10WLED
Reflect	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-LS
Light Source	Field Diaphragm Slide, Center Adjustable,	0	0	•	•	•	A56.1095-FS
	Small Empty Slide	0	0	•	•	•	A56.1095-ES
	Aperture Diaphragm Slide	0	0	•	•	•	A56.1095-AS
	Neutral Filter Reflect 100W Osram Mercury HBO	0	0	•	•	•	A56.1095-NE
	Fluorescent Light House Intelligent Power Supply Control Box With Barrier To Stop/Recover Fluorescent	0	0	•	•	•	A5F.1095- 100W
	Illumination Quickly 10W S-LED Fluorescent Light, 4 Color Bands,						A5F.1095-
Reflect	Brightness Adjustable By Control Box 75W Metal Halide Light Source, Life Time 2000	0	0	0	0	0	10WLED A5F.1095-
Fluorescen t Light	Hours	0	0	0	0	0	75WM
Source	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
Metallurgic al	Upgrade To <u>A13.1096 I</u> nverted Metallurgical Microscope	0	0	0	0	0	<u>A13.1096</u>
Adapter	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: Trinocular Port Switch E100:P0/E20:P80/E0:P100	•	•	•	•	•	
Adapter	Left Port C-Mount 1.0x E0:P100						
Adapter	Right Port C-Mount 1.0x E20:P80						
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x	0	0	0	0	0	A55.1095-04
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x C-Mount 0.5x	0	0	0 0	0 0	0	A55.1095-05
Adapter	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x					-	

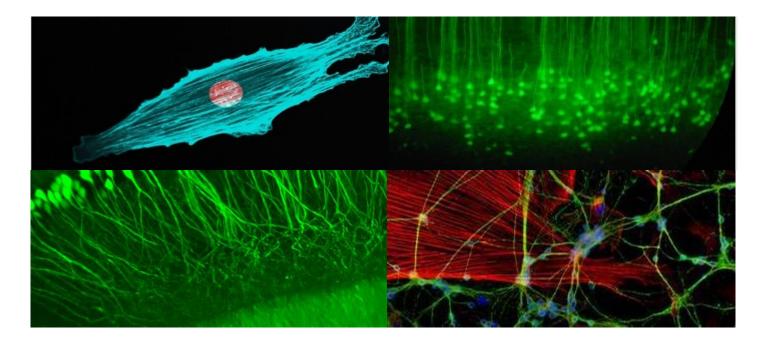
## A16.1096

Inverted Fluorescent Microscope, Manual, Semi-APO, BF+PH+FL, DF/PL/DIC

#### OPTO-EDU



Research Level Inverted Fluorescent Microscope For BF/PH/FL/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infintiy Plan Sem-APO Phase Contrast Objective 10x20x40x LWD Condensor N.A.0.55 W.D.26mm, With 6 Holes Phase Contrast Disc Transmit 12V100 Halogen & Reflect 100W Mercury Fluorescent Light With 3 of B,G,UV,V Filters



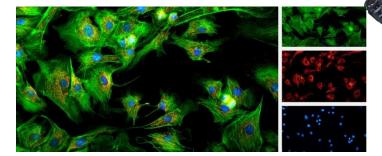
Resear	ch Level Inverted Biological Microscope	A14.10 96	A14.10 97	A16.10 96	A16.10 97	A16.10 98	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	
	Dark Field	-	-	0	0	0	
Observati	Phase Contrast	•	•	•	•	•	
on Methoc	Polarizing	•	•	•	•	•	
	Flourescent	0	0	•	•	•	
	DIC	0	0	0	0	0	
LCD Screen	<ul> <li>4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition.</li> <li>Show Objectives In Use In Nosepiece</li> <li>Show Cubes In Use In Multi Function Turret</li> <li>Brightness Memorize &amp; Restore Function</li> <li>Touch To Adjust Brightness</li> </ul>	-	•	-	•	0	
Head	Touch To Set The System Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in Bertrand Lens Which Can Be Used As Centering Telescope	•	•	•	•	•	
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	•	•	•	•	•	A51.1090- 1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 2012
Media	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	•	
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
PH Infinity Plan	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0- 2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-20
	40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Contrast Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm, With Built-in Correct Ring	0	0	0	0	0	A5C.1098-60

	Coaxial Coarse & Fine Focusing, Focusing Range 9mm (Up 7mm, Down 2mm), Coarse	•	•	•	•	-	
	Stroke 2mm, Fine Stroke 0.2mm Motorized Z Axies (Optical Grating Type)						
Focusing	Focusing System, Focusing Range 9mm (Up 7mm, Down 2mm), Focusing Resloution						
	0.02um With Optical Grating, Movement	-	-	-	-	•	
	Repeat Positioning Accuracy +/-0.1um, Prevent Stage Fall Down Function						
	Three Layer Mechnical Stage, Moving						
	Range 130x85mm, Flexible Knob, Available	•	•	•	•	-	A54.1098
	For Different Size Small Stage Mounted on						
	Top Layer Motorized X/Y Axies (Optical Grating Type)						
Working	Mechnical Stage, Size 325x144mm, Moving						
Stage	Range 130x100mm, Max Speed 10mm/s,						
	Resloution 0.1um, Repeat Accuracy +/-	-	-	-	-	•	A54.1098-M
	0.5um, Available For Different Size Small Stage						
	Mounted on Top Layer, With Separate						
	Communication/Main Control Box & Stick						
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
Working	Dia.54mm Holder For Petri Dish	•	•	•	•	•	A54.1098-54
Stage	96 Holes Plate Holder	•	•	•	•	•	A54.1098-96
e la ge	Terasaki Holder	•	•	•	•	•	A54.1098-TH
	Universal Holder Long Working Distance Turret Condenser,	•	•	•	•	•	A54.1098-UH
	N.A.0.55, W.D.26mm,						
	With 6 Positions For Phase Contrast	•	•	•	•	-	A56.1098
Condense	Annulus, DIC Annulus, And Bright Field View						
r	Motorized Long Working Distance Turret						
	Condenser, N.A.0.55, W.D.26mm, With 6	-	-	-	-	•	A56.1098-M
	Positions For Phase Contrast Annulus, DIC						
	Annulus, And Bright Field View Multi Function Turret Under Nosepiece, With						
	6 Positions For Cubes Of Bright Field, Dark						
	Field, Phase Contrast, Polarizing,	•	•	•	-	-	
	Fluorescent View, Turning The Disc To						
	Easily Switch Observation Methods						
	Coded Multi Function Turret Under						
Multi	Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast,		_	_	•		
Function	Polarizing, Fluorescent View, Turning The						
Turret	Disc To Easily Switch Observation Methods						
	Motorized Coded Multi Function Turret						
	Under Nosepiece, With 6 Positions For						
	Cubes Of Bright Field, Dark Field, Phase	-	-	-	-	•	
	Contrast, Polarizing, Fluorescent View, Turning The Disc To Easily Switch						
	Observation Methods						
	Dark Field Block, Put In Multi Function						450 4000
Dark Field	Turret, For Reflect Light Source	0	0	0	0	0	A5D.1098
Polarizing	Polarizer Filter On LWD Turret Condenser	•	•	•	•	•	A5P.1098-P
For Transmit Light	Analyzer Slide, Insert Into Slot On Nosepiece, 360° Rotatable	٠	•	•	•	•	A5P.1098-A
Polarizing For	Polarizer Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-PL
Reflect Light	Circularly Polarized Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-CP

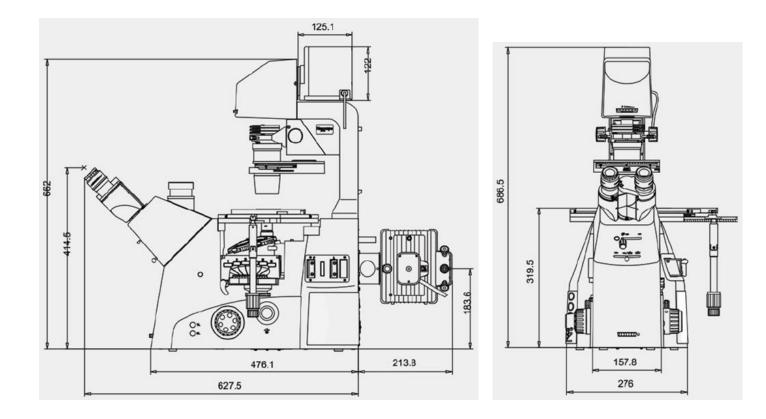
	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	٠	•	•	•	•	A5C.1096- 1020
Phase Contrast	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A40
DIC	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A60
	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S40
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S60
Illumniation	Transmit/Reflect Illumination Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	•	•	•	•	•	
Transmit	12V100W Halogen Kohler Illumination, Brightness Adjustable, Flexible Illuminator Body Can Retrovert From	•	•	•	•	•	A56.1095-
Light Source	Optical Path For Large Space of Operation And Sample Exchange						12V100W
	10W S-LED Kohler Illumination, Brightness Adjustable	0	0	0	0	0	A56.1095- 10WLED
Reflect	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-LS
Light Source	Field Diaphragm Slide, Center Adjustable,	0	0	•	•	•	A56.1095-FS
	Small Empty Slide	0	0	•	•	•	A56.1095-ES
	Aperture Diaphragm Slide	0	0	•	•	•	A56.1095-AS
	Neutral Filter	0	0	•	•	•	A56.1095-NE
	Reflect 100W Osram Mercury HBO Fluorescent Light House	0					
	Intelligent Power Supply Control Box With Barrier To Stop/Recover Fluorescent		0 0	0	•	• •	•
	Illumination Quickly						
Reflect	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable By Control Box	0	0	0	0	0	A5F.1095- 10WLED
Fluorescen t Light	Hours	0	0	0	0	0	A5F.1095- 75WM
Source	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
Metallurgic al	Upgrade To <u>A13.1096</u> Inverted Metallurgical Microscope	0	0	0	0	0	<u>A13.1096</u>
	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: Trinocular Port Switch						
Adapter	E100:P0/E20:P80/E0:P100 Left Port C-Mount 1.0x E0:P100	•	•	•	•	•	
	Right Port C-Mount 1.0x E20:P80 C-Mount 0.4x	0	0	0	0	0	A55.1095-04
	C-Mount 0.5x	0	0	0	0	0	A55.1095-05
	C-Mount 1.0x	•	•	•	•	•	A55.1095-10
	NOMIS Basic Image Processiing Software		1				A30.1090
Software		0	0	0	0	0	A20 1000

#### A16.1097 Inverted Fluorescent Microscope, Semi-Auto, Semi-APO, BF+PH+FL, DF/PL/DIC





Research Level Inverted Fluorescent Microscope For BF/PH/FL/DIC Trinocular Head With Built-in Bertrand Lens SW10x/22mm Eyepiece Infintiy Plan Sem-APO Phase Contrast Objective 10x20x40x LCD Touch Screen + Coded Sextuple Nosepiece + Coded 6 Position Fluorescent Disc Transmit 12V100 Halogen & Reflect 100W Mercury Fluorescent Light With 3 of B,G,UV,V Filters



Resear	ch Level Inverted Biological Microscope	A14.10 96	A14.10 97	A16.10 96	A16.10 97	A16.10 98	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
-	Bright Field	•	•	•	•	•	
	Dark Field	-	-	0	0	0	
Observati	Phase Contrast	•	•	•	•	•	
on Methoc	Polarizing	•	•	•	•	•	
	Flourescent	0	0	•	•	•	
	DIC	0	0	0	0	0	
LCD Screen	<ul> <li>4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition.</li> <li>Show Objectives In Use In Nosepiece</li> <li>Show Cubes In Use In Multi Function Turret</li> <li>Brightness Memorize &amp; Restore Function</li> <li>Touch To Adjust Brightness</li> </ul>	-	•	-	•	0	
Head	Touch To Set The System Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in Bertrand Lens Which Can Be Used As Centering Telescope	•	•	•	•	•	
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	•	•	•	•	•	A51.1090- 1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 2012
Media	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	•	
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
PH Infinity Plan	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0- 2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-20
	40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Contrast Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm, With Built-in Correct Ring	0	0	0	0	0	A5C.1098-60

	Coaxial Coarse & Fine Focusing, Focusing Range 9mm (Up 7mm, Down 2mm), Coarse	•	•	•	•	-	
	Stroke 2mm, Fine Stroke 0.2mm Motorized Z Axies (Optical Grating Type)						
Focusing	Focusing System, Focusing Range 9mm (Up 7mm, Down 2mm), Focusing Resloution						
	0.02um With Optical Grating, Movement	-	-	-	-	•	
	Repeat Positioning Accuracy +/-0.1um, Prevent Stage Fall Down Function						
	Three Layer Mechnical Stage, Moving						
	Range 130x85mm, Flexible Knob, Available	•	•	•	•	-	A54.1098
	For Different Size Small Stage Mounted on						
	Top Layer Motorized X/Y Axies (Optical Grating Type)						
Working	Mechnical Stage, Size 325x144mm, Moving						
Stage	Range 130x100mm, Max Speed 10mm/s,						
	Resloution 0.1um, Repeat Accuracy +/-	-	-	-	-	•	A54.1098-M
	0.5um, Available For Different Size Small Stage						
	Mounted on Top Layer, With Separate						
	Communication/Main Control Box & Stick						
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
Working	Dia.54mm Holder For Petri Dish	•	•	•	•	•	A54.1098-54
Stage	96 Holes Plate Holder	•	•	•	•	•	A54.1098-96
e la ge	Terasaki Holder	•	•	•	•	•	A54.1098-TH
	Universal Holder Long Working Distance Turret Condenser,	•	•	•	•	•	A54.1098-UH
	N.A.0.55, W.D.26mm,						
	With 6 Positions For Phase Contrast	•	•	•	•	-	A56.1098
Condense	Annulus, DIC Annulus, And Bright Field View						
r	Motorized Long Working Distance Turret						
	Condenser, N.A.0.55, W.D.26mm, With 6	-	-	-	-	•	A56.1098-M
	Positions For Phase Contrast Annulus, DIC						
	Annulus, And Bright Field View Multi Function Turret Under Nosepiece, With						
	6 Positions For Cubes Of Bright Field, Dark						
	Field, Phase Contrast, Polarizing,	•	•	•	-	-	
	Fluorescent View, Turning The Disc To						
	Easily Switch Observation Methods						
	Coded Multi Function Turret Under						
Multi	Nosepiece, With 6 Positions For Cubes Of Bright Field, Dark Field, Phase Contrast,		_	_	•		
Function	Polarizing, Fluorescent View, Turning The						
Turret	Disc To Easily Switch Observation Methods						
	Motorized Coded Multi Function Turret						
	Under Nosepiece, With 6 Positions For						
	Cubes Of Bright Field, Dark Field, Phase	-	-	-	-	•	
	Contrast, Polarizing, Fluorescent View, Turning The Disc To Easily Switch						
	Observation Methods						
	Dark Field Block, Put In Multi Function						450 4000
Dark Field	Turret, For Reflect Light Source	0	0	0	0	0	A5D.1098
Polarizing	Polarizer Filter On LWD Turret Condenser	•	•	•	•	•	A5P.1098-P
For Transmit Light	Analyzer Slide, Insert Into Slot On Nosepiece, 360° Rotatable	٠	•	•	•	•	A5P.1098-A
Polarizing For	Polarizer Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-PL
Reflect Light	Circularly Polarized Light Block, Put In Multi Function Turret	0	0	0	0	0	A5P.1098-CP

	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	•	•	•	•	•	A5C.1096- 1020
	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A40
	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097-A60
	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S40
				-			
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097-S60
	Transmit/Reflect Illumination Switch Knob, On						
Illumniation	Right Side Of Main Body, Press To Switch	•	•	•	•	•	
	Transmit And Reflect Switch Light Quickly						
	12V100W Halogen Kohler Illumination,						
I ranemit	Brightness Adjustable,						
	Flexible Illuminator Body Can Retrovert From	•	•	•	•	•	A56.1095-
		•	-	•	-	•	12V100W
	Optical Path For Large Space of Operation And						
	Sample Exchange						
	10W S-LED Kohler Illumination, Brightness	0	0	0	0	0	A56.1095-
	Adjustable	0			0	0	10WLED
Reflect	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-LS
Liaht	Field Diaphragm Slide, Center Adjustable,	0	0	•	•	•	A56.1095-FS
	Small Empty Slide	0	0	•	•	•	A56.1095-ES
	Aperture Diaphragm Slide	0	0	•	•	•	A56.1095-AS
	Neutral Filter Reflect 100W Osram Mercury HBO Fluorescent Light House Intelligent Power Supply Control Box	0	0	•	•	•	A56.1095-NE A5F.1095-
	With Barrier To Stop/Recover Fluorescent Illumination Quickly	0	0				100W
	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable By Control Box	0	0	0	0	0	A5F.1095- 10WLED
Fluorescen	75W Metal Halide Light Source, Life Time 2000 Hours	0	0	0	0	0	A5F.1095- 75WM
t Light Source	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
Metallurgic	Upgrade To <u>A13.1096</u> Inverted Metallurgical Microscope	0	0	0	0	0	A13.1096
	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: Trinocular Port Switch	•	•	•	•	•	
Adapter	E100:P0/E20:P80/E0:P100 Left Port C-Mount 1.0x E0:P100						
	Right Port C-Mount 1.0x E20:P80						
	C-Mount 0.4x	0	0	0	0	0	A55.1095-04
	C-Mount 0.5x	0	0	0	0	0	A55.1095-05
	C-Mount 1.0x	•	•	•	•	•	A55.1095-10
Software	NOMIS Basic Image Processiing Software	0	0	0	0	0	A30.1090
	Table Is Standard Outfits,"o" Is Optional Accesso			able			

#### A16.1098 Full Motorized Inverted Fluorescent Microscope, Full Auto, Semi-APO, BF+PH+FL, DF/PL/DIC





Research Level Full Motorized Inverted Fluorescent Microscope For BF/PH/FL/DIC Motorized Sextuple Nosepiece With DIC Slot, Infinity Plan Sem-APO PH10x20x40x Motorized Triple Layer Working Stage Moving Range 130x85mm, With 3 Holder Motorized LWD Condensor N.A.0.55 W.D.26mm, With 6 Holes Phase Contrast Disc Motorized 6 Position Fluorescent Disc, With 3 Filters



Resear	ch Level Inverted Biological Microscope	A14.10 96	A14.10 97	A16.10 96	A16.10 97	A16.10 98	Cata.No.
Optical System	NIS60 Infinite Optical System, Semi-APO	•	•	•	•	•	
_	Bright Field	•	•	•	•	•	
	Dark Field	-	-	0	0	0	
Observati	Phase Contrast	•	•	•	•	•	
on Methoc	Polarizing	•	•	•	•	•	
	Flourescent	0	0	•	•	•	
	DIC	0	0	0	0	0	
LCD Screen	<ul> <li>4.3" LCD Information Touch Screen In Front of Main Body, For Easy Use in Dark Working Condition.</li> <li>Show Objectives In Use In Nosepiece</li> <li>Show Cubes In Use In Multi Function Turret</li> <li>Brightness Memorize &amp; Restore Function</li> <li>Touch To Adjust Brightness</li> <li>Touch To Set The System</li> </ul>	-	•	-	•	0	
Head	Seidentopf Trinocular Head, Inclined 45°, Interpupillary Distance 47-78mm, Ligth Split Switch E100:P0/E20:P80/E0:P100, With Built-in Bertrand Lens Which Can Be Used As Centering Telescope	•	•	•	•	•	
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	•	•	•	•	•	A51.1090- 1022
Eyepiece	EW12.5x/17.5mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	A51.1090- 2012
Media	Built-in Media Lens Turret 1.0x, 1.5x, Under Nosepiece	•	•	•	•	-	
Lens	Built-in Media Lens Turret 1.0x, 1.5x. CF, Under Nosepiece	-	-	-	-	•	
	Manual Sextuple Nosepiece, With DIC Slot	•	-	•	-	-	
	Coded Manual Sextuple Nosepiece, With DIC Slot	-	•	-	•	-	
Nosepiece	Motorized Coded Manual Sextuple Nosepiece, With DIC Slot, With Objective Protection Function When Switch The Objectives	-	-	-	-	•	
	4x/0.13, W.D.16.5mm, No Cover Glass	0	0	0	0	0	A5C.1098-4
N-iPLFN	10x/0.30, W.D.7.4mm, Cover Glass 1.2mm	•	•	•	•	•	A5C.1098-10
PH Infinity Plan	20x/0.45, W.D.7.5-8.8mm, Cover Glass 0- 2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-20
	40x/0.6, W.D.3-4.4mm, Cover Glass 0-2mm, With Built-in Correct Ring	•	•	•	•	•	A5C.1098-40
Contrast Objective	60x/0.75, W.D.1.8-2.6mm, Cover Glass 0.1- 1.3mm, With Built-in Correct Ring	0	0	0	0	0	A5C.1098-60

	Coaxial Coarse & Fine Focusing, Focusing						
	Range 9mm (Up 7mm, Down 2mm), Coarse	•	•	•	•	-	
	Stroke 2mm, Fine Stroke 0.2mm						
	Motorized Z Axies (Optical Grating Type)						
Focusing	Focusing System, Focusing Range 9mm (Up						
	7mm, Down 2mm), Focusing Resloution	-	-	-	-	•	
	0.02um With Optical Grating, Movement						
	Repeat Positioning Accuracy +/-0.1um,						
	Prevent Stage Fall Down Function						
	Three Layer Mechnical Stage, Moving						
	Range 130x85mm, Flexible Knob, Available	•	•	•	•	-	A54.1098
	For Different Size Small Stage Mounted on						
	Top Layer						
	Motorized X/Y Axies (Optical Grating Type)						
Working	Mechnical Stage, Size 325x144mm, Moving						
Stage	Range 130x100mm, Max Speed 10mm/s,						
	Resloution 0.1um, Repeat Accuracy +/-	-	-	-	-	•	A54.1098-M
	0.5um,						
	Available For Different Size Small Stage						
	Mounted on Top Layer, With Separate						
	Communication/Main Control Box & Stick						
	Dia.38mm Holder For Slide & Petri Dish	•	•	•	•	•	A54.1098-38
Working	Dia.54mm Holder For Petri Dish	•	•	•	•	•	A54.1098-54
Stage	96 Holes Plate Holder	•	•	•	•	•	A54.1098-96
	Terasaki Holder	•	•	•	•	•	A54.1098-TH
	Universal Holder	•	•	•	•	•	A54.1098-UH
	Long Working Distance Turret Condenser,						
	N.A.0.55, W.D.26mm,	•	•	•	•	-	A56.1098
	With 6 Positions For Phase Contrast						
Condenser	Annulus, DIC Annulus, And Bright Field View						
Condonicor	Notorized Long Working Distance Turret						
	Condenser, N.A.0.55, W.D.26mm, With 6	-	-	-	-	•	A56.1098-M
	Positions For Phase Contrast Annulus, DIC						
	Annulus, And Bright Field View						
	Multi Function Turret Under Nosepiece, With						
	6 Positions For Cubes Of Bright Field, Dark						
	Field, Phase Contrast, Polarizing,	•	•	•	-	-	
	Fluorescent View, Turning The Disc To						
	Easily Switch Observation Methods						
	Coded Multi Function Turret Under						
Multi	Nosepiece, With 6 Positions For Cubes Of						
Function	Bright Field, Dark Field, Phase Contrast,	-	-	-	•	-	
Turret	Polarizing, Fluorescent View, Turning The						
	Disc To Easily Switch Observation Methods						
	Motorized Coded Multi Function Turret						
	Under Nosepiece, With 6 Positions For						
	Cubes Of Bright Field, Dark Field, Phase	-	-	-	_	•	
	Contrast, Polarizing, Fluorescent View,						
	Turning The Disc To Easily Switch						
	Observation Methods						
Dark Field	Dark Field Block, Put In Multi Function	0	0	0	0	0	A5D.1098
	Turret, For Reflect Light Source						
Polarizing	Polarizer Filter On LWD Turret Condenser	•	•	•	•	•	A5P.1098-P
For	Analyzer Slide, Insert Into Slot On						
Transmit	Nosepiece, 360° Rotatable	•	•	•	•	•	A5P.1098-A
Light	• ·						
Polarizing	Polarizer Light Block, Put In Multi Function	0	0	0	0	0	A5P.1098-PL
For Reflect	Turret	<u> </u>			L		, OI . 1030-1 L
Light	Circularly Polarized Light Block, Put in Multi	0	0	0	0	0	A5P.1098-CP
9.10	Function Turret	-	-	_	_		

	Phase Contrast Annulus 10x/20x, Put In Turret Condenser	•	•	•	•	•	A5C.1096- 1020
Phase Contrast	Phase Contrast Annulus 40x, Put In Turret Condenser	•	•	•	•	•	A5C.1096-40
	Phase Contrast Annulus 60x, Put In Turret Condenser	0	0	0	0	0	A5C.1096-60
	DIC Annulus 10x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097- A10
	DIC Annulus 20x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097- A20
	DIC Annulus 40x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097- A40
	DIC Annulus 60x, Put In LWD Turret Condenser	0	0	0	0	0	A5C.1097- A60
DIC	DIC Slider 10x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097- S10
	DIC Slider 20x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097- S20
	DIC Slider 40x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097- S40
	DIC Slider 60x, Insert Into Slot On Nosepiece	0	0	0	0	0	A5C.1097- S60
llumniation	Transmit/Reflect Illumination Switch Knob, On Right Side Of Main Body, Press To Switch Transmit And Reflect Switch Light Quickly	•	•	•	•	•	
ight Source	12V100W Halogen Kohler Illumination, Brightness Adjustable, Flexible Illuminator Body Can Retrovert From Optical Path For Large Space of Operation And	•	•	•	•	•	A56.1095- 12V100W
	Sample Exchange 10W S-LED Kohler Illumination, Brightness Adjustable	0	0	0	0	0	A56.1095- 10WLED
Reflect	Large Filter Holder Slide With 3 Holes	0	0	•	•	•	A56.1095-L
ight Source	Field Diaphragm Slide, Center Adjustable,	0	0	•	•	•	A56.1095-F
	Small Empty Slide	0	0	•	•	•	A56.1095-E
	Aperture Diaphragm Slide	0	0	•	•	•	A56.1095-A
	Neutral Filter	0	0	•	•	•	A56.1095-N
	Reflect 100W Osram Mercury HBO Fluorescent Light House Intelligent Power Supply Control Box With Barrier To Stop/Recover Fluorescent Illumination Quickly	0	0	•	•	•	A5F.1095- 100W
	10W S-LED Fluorescent Light, 4 Color Bands, Brightness Adjustable By Control Box	0	0	0	0	0	A5F.1095- 10WLED
	75W Metal Halide Light Source, Life Time 2000 Hours	0	0	0	0	0	A5F.1095- 75WM
-	Fluorescent Filter B Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-B
	Fluorescent Filter G Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-G
	Fluorescent Filter U Block, Put In Multi Function Turret	0	0	•	•	•	A5F.1095-U
	Fluorescent Filter V Block, Put In Multi Function Turret	0	0	0	0	0	A5F.1095-V
/letallurgical	Upgrade To <u>A13.1096</u> Inverted Metallurgical Microscope	0	0	0	0	0	A13.1096
	3 Camera Ports, On Both Side Of Main Body And Head, Turret Switch Between: Trinocular Port Switch E100:P0/E20:P80/E0:P100 Left Port C-Mount 1.0x E0:P100 Right Port C-Mount 1.0x E20:P80	•	•	•	•	•	
	C-Mount 0.4x	0	0	0	0	0	A55.1095-04
	C-Mount 0.5x	0	0	0	0	0	A55.1095-0
	C-Mount 1.0x	•	•	•	•	•	A55.1095-10

# A17.1091

Multi Viewing Research Laboratory Microscope, 10 People, Manual

#### OPTO-EDU





Research Level Multi Viewing Laboratory Microscope For BF/DF/PH/PL/FL/DIC Extra Wide Eyepiece EW10x/25mm Dia.30mm Diopter Adjustable 6 Holes Nosepiece With Infinity Plan Objective 4x10x20x40x100x Rackless Working Stage With Gorilla Glass 190x152mm Moving Range 78x54mm ECO Function Kohler Illumination 24V100W Halogen Or 3W SLED Optional



A17.10	91 Multi Viewing Research Laboratory Microscope	2	2R	<b>2L</b>	3	5	10	Cata.No.
Optical System	NIS60 Infinity Optical System	•	•	•	•	•	•	
	Bright Field	•	•	•	•	•	•	
	Dark Field	0	0	0	0	0	0	
Observation	Polarizing	0	0	0	0	0	0	
/lethod	Phase Contrast	0	0	0	0	0	0	
	Flourescent	0	0	0	0	0	0	
	DIC	0	0	0	0	0	0	
Main Body	Manual Body + Halogen Illumination(LED Illumination Optional).						•	A54.1090-BH
	ATH Semi-Auto Body + Halogen Illumination(LED Illumination Optional).	•	•	•	•	•		A54.1090-ATH
	Auto Nosepiece + Auto Condenser + Auto Brightness Adjust							
	Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47-78mm, 3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100						•	A53.1090-T
Head	Ergo Tilting Trinocular Head, Inclination 0°~35°, Interpupillary Distance 47-78mm, 3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100	•	•	•	•	•		A53.1090-TT
	2 Heads Opsite	•						
	2 Heads Right Side		•					
/lulti	2 Heads Left Side			•				
'iewing	3 Heads, Trinocular				•			
неао	5 Heads, Trinocular					•		
	Deca Heads, Trinocular						•	
	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	••	••	••	••	••	••	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1090-1022
yepiece	EW12.5x/16mm, High Eyepoint	0	0	0	0	0	0	A51.1090-12516
, I	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	0	0	0	0	0	0	A51.1090-2012
	Manual Nosepiece, Quintuple, Backward, Center Adjustable							A54.1091-5M
	Manual Nosepiece, Sextuple, Backward						•	A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto Brightness Adjust						0	A54.1091-6C
losepiece	Auto Coded Nosepiece, Sextuple, Backward, Motorized Switch Objectives, Controled By: 1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted Objectives Quickly							
·	2. Remote Control Pad In Front Of Base, Press Each Button To Switch Objectives And Adjust The Light Intensity Automatically. 2 Buttons Can Be Self-Defined For Most Commonly Used Objecives, Press Green Button Can Swap Between Them	•	•	•	•	•	0	A54.1091-6A
	With Slot For Polarizing Compensator Slider Or DIC Slider	•	•	•	•	•	•	
	Protect Cover For Nosepiece Holes	-	•					

	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	0	0	0	0	0	0	A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	•	•	•	•	•	•	A52.1090-4
NIS60	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	•	•	•	•	•	•	A52.1090-10
N-PLN	20x/0.40, W.D.12mm, Cover Glass 0.17mm	•	•	•	•	•	•	A52.1090-20
Infinity Plan		•	•	•	•	•		A52.1090-40
Objective	50x/0.95(Oil, W.D.0.19mm, Cover Glass 0.17mm	0	0	0	0	0	0	A52.1090-50
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	0	0	0	0	0	0	A52.1090-60
	100x/1.25(Oil), W.D.0.2mm, Cover Glass 0.17mm	•	•	•	•	•	•	A52.1090-100
NIS60 APO	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	0	0	0	0	0	0	A52.1091-20
Infinity Plan	100x/1.45(Oil), W.D.0.13mm, Cover Glass 0.17mm	0	0	0	0	0	0	A52.1091-100
	Double Layer Mechnical Stage Full Size 302x152mm,							
	Stage Table Size 190x152mm, Moving Range 78x32mm,							A54.1092-GL
	Double Slide Holder, With Gorilla Glass Insert, Left							AJ4.1092-0L
	Handle							
	Double Layer Mechnical Stage Full Size 302x152mm,							
	Stage Table Size 190x152mm, Moving Range 78x32mm,							A54.1092-GR
	Double Slide Holder, With Gorilla Glass Insert, Right							AJ4.1032-OK
	Handle							
	Double Layer Mechnical Stage Full Size 302x152mm,							
Working	Stage Table Size 190x152mm, Moving Range 78x32mm,	0	0	0	0	0		A54.1092-SL
Stage	Double Slide Holder, With Sapphire Glass Insert, Left							AJ4.1092-0L
	Handle			<u> </u>			<u> </u>	
	Double Layer Mechnical Stage Full Size 302x152mm,							
	Stage Table Size 190x152mm, Moving Range 78x32mm,					•		A54.1092-SR
	Double Slide Holder, With Sapphire Glass Insert, Right			-		-		A34.1032-01
	Handle							
	Low Position Control Knob, Height Adjustable Up/Down							
	18mm, Convex Point Guide Mechanism For Easily Put							
	Slide By One Hand, With Tension Adjustable Ring, With		-	-	-			
	Safety Stop Screw							
Condenser	Swing-Out Condenser NA0.9/0.25						•	A56.1091-S
	Auto Swing-Out Condenser NA0.9/0.25	•	•	•	•	•		A56.1091-A
	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm,							
Focusing	Focusing Range 35mm, Coarse Stroke 37.7mm, Fine	•	•	•	•	•	•	
	Stroke 0.1mm, Can Exchange Hand Wheel Between							
	Left/Righ							
	Transmit Kohler Illumination, Brightness Adjustable,	•	•	•	•		•	A56.1090-12V100W
	12V100W Halogen, External Lamp House							
	Transmit Kohler Illumination, Brightness Adjustable,					•		A56.1090-3WLED
	3W S-LED, Built-in Main Body			-			-	
	ECO Function Support Auto Power Off After 30 Mins	•	•	•	•	•	•	A56.1090-ECO
Linkt O	From Operator Leave To Save Energy						-	
Light Source	eAuto Brightness Adjust, Brightness For Each Objective							
	Can Be Memorized And Restored When Objective Is							
	Selected							
	Add 4004 Linerada akta Ta Auta Debit (1999 All's (1997	•	•	•	•	•	0	A56.1090-AB
	A12.1091 Upgradeable To Auto Brightness Adjust, Must							
	Upgrade To A54.1091-6C Coded Nosepiece At Same							
	Time			<u> </u>			-	
	Filter Holder On Base, Can Hold 3 Filters	•	•	•	•	•		A56.1092-H
Filter For	Filter LBD	•	•	•	•	•		A56.1092-LBD
Transmit	Filter Green	•	•	•	•	•		A56.1092-G
Light	Filter Yellow	•	•	•	•	•		A56.1092-Y
						•		A56.1092-ND6
	Filter ND6	•	-	-			-	A 50 4000 NE 5-
	Filter ND25	•	•	•	•	•	•	A56.1092-ND25
	Filter ND25 Eyepiece Adapter Dia.23.2mm	•	0	0	0	0		A55.1090-E
Adapter	Filter ND25 Eyepiece Adapter Dia.23.2mm C-Mount 1.0x	• • 0	-	0	0	0	0	A55.1090-E A55.1090-1.0x
Adapter Software	Filter ND25 Eyepiece Adapter Dia.23.2mm		0	0	0	0		A55.1090-E

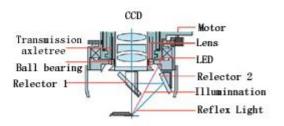
	Including Control Stick, Controller Box, Z Axis Moto							
	Control Part, Motorized X/Y Mechanical Stage							
	Travel Range X:125mm, Y:75mmm,							
	Minimum Step 0.1um							
	Re-Position Accurate +/-1.5um							
	Max Speed 25mm/s							
Full-Auto	Size: 275x239x44.5mm							
Motorized	Soft Stop, Mechanical Stop, Opto-Electro Switch Stop	0	0	0	0	0		A54.1095-A
	Z Axis Re-Position Accurate: Average +/-1.5um, Near							
	Focus +/-0.1um							
	Z Axis Max Speed 10r/s							
	3D Control Stick, 4 Speeds							
	Connection By USB2.0 & RS232							
	Communication Speed 9600 bits							
	Upgrade To Z Axis With Optical Grating Ruler	0	0	0	0	0		A54.1095-B
	Dark Field Condenser, N.A. 0.7~0.9, Dry	0	0	0	0	0	0	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	0	0	0	0	0		A5D.1090-I
	Dark Field Objective, Infinity Plan 100X,							
Dark Field	For Immersion Dark Field Observation	0	0	0	0	0	0	A5D.1030-3
	Dark Field Objective, Infinity Plan 100X, With Iris							
	Diaphragm,	0	0	0	0	0		A5D.1030-4
	For Immersion Dark Field Observation							AJD. 1030-4
		_	_	<u> </u>	_	<u> </u>	_	A5P.1091-P
Polarizina	Polarizer For Transmit Light Source	0	0	0	0	0		
	Analyzer Slide For Transmit Light Source	0	0	0	0	0		A5P.1091-A
	Turret Phase Contrast Condenser, Center Adjustable	0	0	0	0	0		A5C.1090
	Centering Telescope 10x	0	0	0	0	0	0	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN PH	0	0	0	0	0	0	A5C.1091-10
	10x/0.25							
	Infinity Plan Phase Contrast Objective N-PLN PH	0	0	0	0	0	0	A5C.1091-20
	20x/0.40							
	Infinity Plan Phase Contrast Objective N-PLN PH	0	0	0	0	0		A5C.1091-40
	40x/0.65							AJO.1031-40
	Infinity Plan Phase Contrast Objective N-PLN PH	0	0	0	0	0		A5C.1091-100
	100x/1.25(Oil)				0			AJC.1091-100
	Polarizer For Transmit Light Source	0	0	0	0	0	0	A5P.1090-TP
	Turret DIC Condenser	0	0	0	0	0	0	A5C.1095
	DIC Slide 10x, Used With Semi-APO Fluorescent							A5C.1095-10
	Objective	0	0	0	0	0	0	ASC.1095-10
	DIC Slide 20x/40x, Used With Semi-APO Fluorescent		_	_	_	_	_	
DIC	Objective	0	0	0	0	0	0	A5C.1095-2040
	DIC Slide 100x, Used With Semi-APO Fluorescent							
	Objective	0	0	0	0	0	0	A5C.1095-10
	DIC Slide With Analyzer 10x-20x	0	0	0	0	0	0	A5C.1095-1020P
	DIC Slide With Analyzer 40x-100x	0	0	0	0	0		A5C.1095-40100P
	10x/0.3, W.D.8.1, Cover Glass 0.17mm	0	0	0	0	0		A5F.1091-10
	20x/0.5, W.D.2.1, Cover Glass 0.17mm	0	0	0	0	0		A5F.1091-20
	40x/0.75, W.D.0.7, Cover Glass 0.17mm	0	0	0	0	0		A5F.1091-20
Fluorescent	TUNIU.13, W.D.U.1, UUVEI GIASS U.1/11111				0			AJI.1031-40
	100x/1.3, W.D.0.15, Cover Glass 0.17mm							A5F.1091-100
For DIC		0	0	0	0	0		
	Working Stogo Holder Preaket	-	-	-	-	-	-	A54 1000
	Working Stage Holder Bracket	•	-	•	•	•		A54.1096
	Adapter To Adjust Eye Position	0	0	0	0	0		A54.1096-A1
	Adapter To Lower The Stage Position 1"	0	0	0	0	0		A54.1096-A2
	Immersion Oil	•	•	•	•	•		A50.1090-01
ITDAT	Allen Wrench	•	•	•	•	•		A50.1090-02
Accessories	Power Cord	•	•	•	•	•		A50.1090-03
	Short Eye Cover, For Eyepiece	0	0	0	0	0		A50.1090-04
	Long Eye Cover, For Eyepiece	0	0	0	0	0	0	A50.1090-05
	Eyepiece Micrometer, Cross	0	0	0	0	0	0	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	0	0	0	0	0	0	A50.1090-07
	USB Cable	0	0	0	0	0	0	A50.1090-08

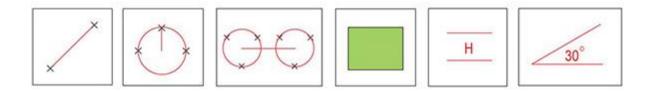
### A21.0401 3D Zoom Mono Video Microscope

#### OPTO-EDU

0.65x-4.5x 3D Microscope Body Big Depth Of Field, High Resolution Ratio LED Light Source, 45°/55° Obeserve Module Group 3D Image In Focus And Electric Motor Control Used Extensively In Surface Board Of SMT、PCB、BGA







A21.0401 3D Zoom Mono Video Microscope							
Magnification	0.65x-4.5x 3D Microscope Body						
Body	Use 360° All-direction Microscopes Obtain Much Big Depth Of Field, 3D Many-sided, Joint Agile, Control Convenience						
Objective	Zoom, Muitl-angles Observation						
Mirror	45°/55° Observe Module Group						
Camera	No CCD						
Light Source	LED Light Source, 3D Image In Focus And Electric Motor Control						
Stand	Pole Large Stand						
Application	It Can Be Used Extensively In Surface Board Of SMT、PCB、BGA Etc						
Software	3D Image Measure Software, Precise Quantity Measure Function(Need Computer Stand By)						
Features	Big Depth Of Field, High Resolution Ratio(Need Digital Vidicon Stand By)						

### A21.3601 Monocular Zoom Video Microscope, 0.7-4.5x

#### OPTO-EDU

0.7-4.5x Monocular Zoom Video Microscope Body Total Magnification 0.35x-225x Continou Zoom With Standard CCD Mount And Optical Lens 1x Column Diameter 25mm, Working Distance 100mm C-Mount 0.35x, 1.0x, Auxiliary 0.5x, 2.0x Optional

Items	A21.3601 Mono Zoom Video Microscope	A21.3601	A21.3601 -B3	A21.3601 -STL7
Head	Monocular	•	•	•
C-Mount	0.5x, W.D.100mm	•	•	•
Objective	0.7x-4.5x	•	•	•
Magnification	0.35x-2.25x, Zoom Power	•	•	•
Focusing Type	XLB-A1 Basket Holder, Range 62mm, Mirror Aperture Φ50mm	•	•	•
Stand	None, Main Body Only B3 Pillar Stand, Column diameter Φ25mm, Height 323mm or 270mm STL7 Stand, Diameter Φ25mm, Height 340mm, Size 380x260x20mm	•	•	•
Items	A21.3601 Mono Zoom Video Microscope O	ptional Acc	essories	
C-Mount	0.35x			
	1.0x			
Auxiliary	0.5x			
Objective	2.0x			
Light Source	LED Ring Lamp			

	Standard Ob	jective 0.7x-4.5x	Auxiliary ob	jective 0.5x	Auxiliary objective 2.0x			
Eyepiece	epiece W.D.100mm W.D.198mm		W.D.46mm					
	Magnification	Field Of View	Magnification	Field Of View	Magnification	Field Of View		
0.35x	0.245x	23.0	0.1225x	46.0	0.49x	11.6		
0.55X	1.575x	3.0	0.7875x	7.0	3.15x	1.7		
0.5x	0.35x	17.6	0.175x	35.0	0.7x	8.8		
0.5X	2.25x	2.7	1.125x	5.0	4.5x	1.3		
1.0x	0.7x	9.0	0.35x	17.6	1.4x	4.0		
1.0X	4.5x	1.6	2.25x	3.0	9x	0.7		

### A21.1609 3D Motorized Rotate Zoom Mono Video Microscope

#### OPTO-EDU

Advanced Optical System & Precision Machinery Electronics Technology 3D Whole Azimuth Multi-Angle Observation Greatly Improved Detail Observation Level 360° Observe Each Side of Object With Large Depth of Field In Real Time Dynamic Image Observe The Position Which Cannot Be Viewed By Tranditional Lens Like Bottom, Inside, Side-Wall Of Holes

Widely Used For SMT, PCB, BGA Surface Board Assembly Industry



A21.1609 3D Rotated Zoom Video Microscope								
Zoom Range	0.28-1.875x							
Observation Angle	45° 60°							
Standard WD	26mm 42mm							
Illuminators	Long Life LED Illumination							
Miniature Motor	90V-260V Wide Input Voltage, 5-27tu	rns/minute, Stepless Adjustment						
Holder And Main Body Matching Dimension	45mm							
CCD Adapter	0.5x							
1/3"CCD FOV(mm)	12.9x17.1-1.92x2.56							

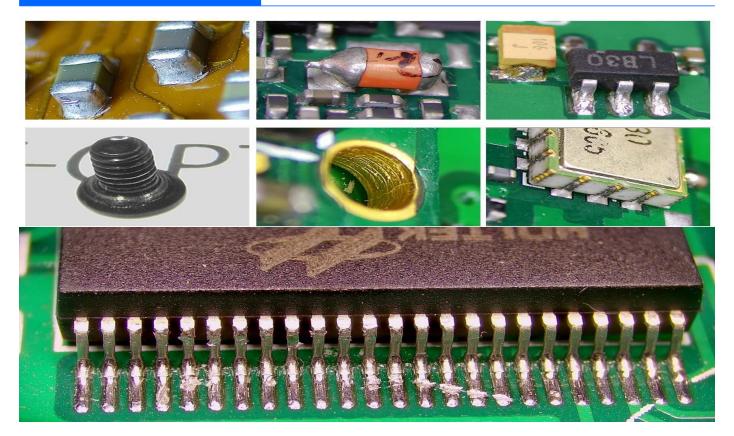
### A21.1610 2D/3D Manual Rotate Zoom Video Microscope

#### OPTO-EDU



2D & 3D Rotate Zoom Observation Switch Quickly & Easily By Manual 3D 360° Observe Each Side of Object With Large Depth of Field In Real Time Dynamic Image 1080p HDMI Digital Camera Support Photo & Video Capture To U Disk 12.5" LCD Monitor IPS Screen 16.7M Color Display Resolution 1920x1080p Widely Used For SMT, PCB, BGA Surface Board Assembly Industry

#### **Real Shot Effect**



## **Specification**





A21.1610 2D/3D Manual Rotate Zoom Video Microscope					
	Optical Magnification	0.6-5.0X			
Lens Parameter	Total Magnification	11-95X Base Of 12.5"Monitor			
	Working Distance	86mm			
	Ratio	1:8.3			
	Field Of View	24*13.5-2.88*1.62mm			
	Lens Mount	Standard C mount			
2D/3D viewer	Support 2D/3D Observing				
2D/3D viewei	360 °Rotation, 45 °Objective Viewing Angle				
	Image Sensor	1/2" SONY CMOS			
	Max Magnification	1920 x 1080			
	Pixel Size	3.75µm x 3.75µm			
Camera Parameter	White Balance	Manual And Auto			
	Brightness Control	Manual And Auto			
	Memory Function	Take Photo Or Video To U Disk			
	Output	HDMI TYPE			
	Size	12.5"			
	Туре	IPS			
	Resolution	1920*1080			
	Color Display	16.7M			
Monitor Parameter	Brightness	300 cd/m² (Typ.)			
	Contrast	1000:1 (Typ.)			
	Power Supply	DC: 12V 2A			
	Input	HDMI And VGA			
	Light Control	4 Zones Control. Brightness Adjust			
	Light color	White			
	Quantity Of LED	208PCS LED			
	Intensity	15000 Lux			
Light Source	Wavelength	455-457.5nm			
Parameter	Output Voltage	12V			
	Output Power	8-10W			
	Working Distance	35-110mm			
	Material	Aluminum Alloy			
	Diameter	Inner Diameter 40mm, Outer Diameter 106mm, Height 19mm			
	Focus	Coarse Focus			
Stand Parameter	Base Size	330*300mm			
	Height	318mm			
Model	Name	Specification			
	0.5x (Standard)	0.3-2.5X(0.6-5.0X zoom body+0.5X C mount),standard Specification			
C-Mount	0.3x (Optional)	0.18-1.5X(0.6-5.0X zoom body+0.3X C mount)			
	1.0x (Optional)	0.6-5X (0.6-5.0X zoom body+1.0X C mount)			

### A21.1620 Calibration Free Motorized Zoom Video Microscope



Motorized 0.6x-5x Zoom Control By Mouse On HDMI Monitor No Need To Calibrate In All Zoom Range, Just Measure By Mouse With Pre-Setted Scale! Built-in High Precision Electronic Feedback System, Smart Cruise Scanning setting Large Size Track Stand With Coaxial Coarse & Fine Focus, With Bottom Light Widely Used For SMT, PCB, BGA Surface Board Assembly Industry



2	).60x	0×					Monual	
Subject	0.6	1x	2x	Зx		4x	5x +	OX.

Mouse Control Motorized 0.6-5.0X Electric Stepless Zoom

A21.1620 Calibration Free Motorized Zoom Video Microscope					
	Standard	Optional			
Optical Magnification	0.3-2.5X (0.6-5.0X Zoom Body With 0.5X CCD Mount)	0.6-5.0X (0.6-5.0X Zoom Body With 1.0X CCD Mount)			
FOV	24x13.5-2.88x1.62mm	12x6.75-1.44x0.81mm			
Total Magnification	14-120X (Based On 15.6 Inch Monitor)	28-240X (Based On 15.6 Inch Monitor)			
Working Distance	86mm				
Resolution	1920*1080				
Frame	60fps				
Sensor	1/2"				
Pixel Size	3.75x3.75µm				
Output	High Resolution HDMI Output				
Light Source	LED Ring Light With 4 Zones Control				
Measuring Function	Support Measuring Of Point, Line, Parallel Lines, Circle, Arc, Angle, Rectangle, Polygon Etc.				
Save Function	Take Photo And Video To U Disk				



Magnification	Working Distance	FOV	Depth Of Field	NA	Resolution
0.6	85.6mm	12x6.75mm	3.12mm	0.021mm	0.016
0.8	85.6mm	9x5.06mm	2.04mm	0.025mm	0.014
1	85.6mm	7.2x4.05mm	1.21mm	0.033mm	0.01
2	85.6mm	3.6x2.03mm	0.38mm	0.053mm	0.006
3	85.6mm	2.4x1.35mm	0.20mm	0.067mm	0.005
4	85.6mm	1.8x1.01mm	0.13mm	0.079mm	0.004
5	85.6mm	1.5x0.81mm	0.09mm	0.090mm	0.004

### **Optional Accessories**



**CCD Mount** 



**Auxiliary Objective** 









11mm LED Point Light

Optional Accessories						
C-Mount	0.3X CCD Mount	Standard C-mount				
	0.45XCCD Mount	Standard C-mount				
	0.5X CCD Mount	Standard C-mount				
	0.67XCCD Mount	Standard C-mount				
	0.75X CCD Mount	Standard C-mount				
	1X CCD Mount	Standard C-mount				
	1.5X CCD Mount	Standard C-mount				
	2X CCD Mount	Standard C-mount				
	3X CCD Mount	Standard C-mount				
	0.3X Auxiliary Objective	Use With 1X Objective, Working Distance 270mm				
	0.38X Auxiliary Objective	Use With 1X Objective, Working Distance 205mm				
	0.5X Auxiliary Objective	Use With 1X Objective, Working Distance 160mm				
Auxiliary Objective	0.6X Auxiliary Objective	Use With 1X Objective, Working Distance 130mm				
	0.75X Auxiliary Objective	Use With 1X Objective, Working Distance 105mm				
	1.5X Auxiliary Objective	Use With 1X Objective, Working Distance 50mm				
	2.0X Auxiliary Objective	Use With 1X Objective, Working Distance 39mm				
Other Accessories	Coaxial Device	Use With φ11mm LED Point Light				
	Polarized Coaxial Device	Use With φ11mm LED Point Light				
	11mm LED Point Light	3W, Brightness Adjustment				

## A22.1504 Stereo Microscope

### OPTO-EDU







Binocular Head, 45° Inclined Coarse Focusing Knob, Focusing Range 40mm Frosted Glass Plate, Black/White Plate, Dia.60/90mm Upper/Bottom Light Source, 12V10W Halogen

	A22.1504 Stereo Microscope	Α	В	С
Hood	Binocular Head, 45° Inclined,			
Head	Interpupillary Distance 55~75mm	•	•	
Eyepiece	WF10x, 1 Pair, A51.1523-10	•	•	•
	WF20x, 1 Pair, A51.1523-20	0	0	0
Obiestive	2x/4x	•	•	•
Objective	1x/3x	0	0	0
Focus	Coarse Focusing Knob, Focusing Range 40mm	•	•	•
W.D.	Working Distance 57mm	•	•	•
01	Frosted Glass Plate, Black/White Plate, Dia.60mm	•	•	
Stage	Frosted Glass Plate, Black/White Plate, Dia.90mm			•
	No Light Source	•		
Light Source	Upper Light Source, 12V10W Halogen		•	
	Upper/Bottom Light Source, 12V10W Halogen			•
	Upgrade To LED 1W Light Source		0	0
	21x11.0x24cm	•		
Size	22x11.5x26cm		•	
	22x11.5x26cm			•
Note:  Mote:	eans Standard Outfit, O Means Optional			

# A22.1201 Stereo Microscope

### OPTO-EDU

Binocular Head 45° Inclined With Eyepiece WF10x Long Working Distance Objective 1.0x, 0.5x Optional Boom Pole Stand Moving Head To Any Position Freely Incident Light Incandescent 12V10W Or 6V6W Or LED Working Distance 230mm

Items	A22.1201 Stereo Microscope						
Head	The Left Ocular-tube with diopter adjustment 5dp, the Interpupillary Dis	stance:55-75mm					
Eyepiece	WF10X						
Objective	1X						
Working Distance	230mm						
Light Source	Incandescent Lamp 12V/10W 6V/6W						
	Optional Accessories	Item No.					
	WF5X	A51.1201-05					
Eyepiece	WF15X	A51.1201-15					
	WF20X	A51.1201-20					
Objective	0.5X	A52.1281-05					

ce

171-101

Technical Data									
				EYEPIE	CES				
Objective	5X		10X		15X		20	Working	
	Mag.	Field of View	Distance						
0.5X	2.5X	40.0mm	5X	40.0mm	7.5X	30.0mm	10X	20.0mm	250mm
1X	5X	20.0mm	10X	20.0mm	15X	15mm	20X	10.0mm	230mm

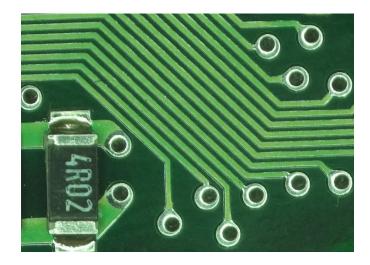
# A22.1202 Stereo Microscope, 2x

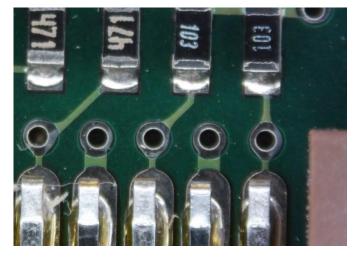
### OPTO-EDU

Upright Binocular Interpupillary Distance 55-75mm Eyepiece WF10x 2 Pcs Objective 2x Working Distance 70mm Small Track Stand With Focusing Knob Built-in Incident Light Incandescent Lamp or LED



Items	A22.1202 Stereo Microscope
Head	Upright Binocular, the Interpupillary Distance:55-75mm
Eyepiece	WF10X
Objective	2X
Working Distance	70mm
Light Source	Built-in Incident Light, Incandescent Lamp or LED





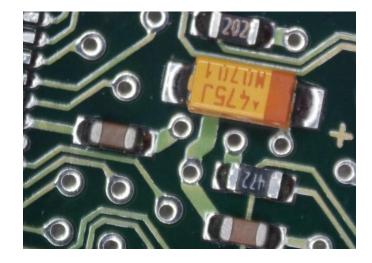
# A22.1218 Stereo Microscope, 2x

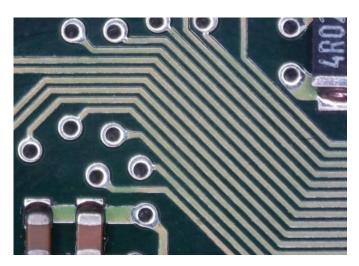
# OPTO-EDU

Upright Binocular Interpupillary Distance 55-75mm Eyepiece WF10x 2 Pcs Objective 2x Working Distance 70mm Small Track Stand With Focusing Knob Built-in Incident Light LED



Items	A22.1218 Specification
Head	45° Inclined Binocular Head, The Interpupillary Distance is 55-75mm
Eyepiece	WF10X
Objective	2X
Working Distance	70mm
Light Source	Built-in LED Light





# A22.1237 Stereo Microscope, 1x2x/1x3x/2x4x

### OPTO-EDU

Binocular Head 360° Rotatable With Locked-in Eyepiece WF10x/22mm High Eye Point Wide Field Eyepiece Main Objective 90° Rotatable 1x2x, 1x3x, 2x4x Optional Track Stand & Pole Stand Optional With Up/Bottom Light Dial & Touch Power On/Off Switch Optional



OPTO-EDI

### **Product Specification**

Items	A22.1237 Stereo Microscope								
Model	Р	PA	PB	ТА	ТВ				
Head	Rotatable 360°, Inclination 45° Binocular, With Locked-in Eyepiece, Left & Right Diopter Adjustable $\pm 5^{\circ}$ , Head Interpupillary 55-75mm								
Eyepiece	WF10x								
Objective	Three Kind Of Objective 90° Rotatable For Selection: 1x2x, 1x3x, 2x4x								
Light Source	No Light Source	Reflect 1WLED, Transmit 7x20mA							
Stand	Pole Stand	Pole Stand Touch Switch	Pole Stand Dial Switch	Track Stand Touch Switch	Track Stand Dial Switch				
Working Stage	Ф60 White/Black A	nd Φ60 Frosted G	lass						
Power Supply	No Light Source	AC 100V-240V W	ide Range, With 3x	AA Rechargeable	e Batteries 1300mAh				
		Option	al Accessories						
	WF5x								
Eveniese	SWF10x								
Eyepiece	WF15x								
	WF20x								

# A22.1239 Stereo Microscope, 1x2x3x/1x2x4x

# OPTO-EDU

Binocular Head 360° Rotatable With Locked-in Eyepiece 1x2x3x/1x2x4x Three Lens Group Switchable WF10x/22mm High Eye Point Wide Field Eyepiece Track Stand With Up/Bottom Light Brightness Adjustable Dial & Touch Power On/Off Switch Optional

Model	A22.1239-TA	А22.1239-ТВ			
Head	Binocular Head, 45° Inclined, Interpupillary Di	stance 48~75mm			
Eyepiece	WF10x/20mm				
Objective	1x,2x,3x Or 1x,2x,4x (Optional)				
Focusing	Coarse Focusing, Range 40mm	Coarse Focusing, Range 40mm			
Working Distance	57mm				
Stand	Track Stand + Touch Switch	Track Stand + Dial Switch			
	With Dia 70mm Glass Stage And White/Black	Stage			
Light Source	Top 1W LED, Bottom 7x20mA LED Light Brig	htness Adjustable			
Power	AC 100~240V Wide Range Power, With 3xAA	AC 100~240V Wide Range Power, With 3xAA Rechargeable Batteries Built-in Base. (For			
	Order Shipped By Air, The Batteries Will Not I	Be Included)			

OPTO-EDU

			A22.12	239 Techni	cal Data			
Objective	s Magnification	View Field	Magnification	View Field	Magnification	View Fiel	d Magnification	View Field
1X	5X	20mm	10X	20mm	15X	15mm	20X	10mm
2X	10X	10mm	20X	10mm	30X	7.5mm	40X	6.5mm
3X	15X	7mm	30X	6.7mm	45X	5.0mm	60X	4.3mm
4X	20X	5mm	40X	5mm	60X	3.5mm	80X	3.2mm

A22.1239 Optional Accessories					
	WF5x/22mm	A51.1221-05			
Eveniege	WF10x/20mm	A51.1221-10			
Eyepiece	WF15x/15mm	A51.1221-15			
	WF20x/10mm	A51.1221-20			

# A22.1309 Stereo Microscope, 2x4x

### OPTO-EDU

Binocular Head, Inclined 45°, Interpupillary Distance 55-75mm Eyepiece WF10x/18mm 1 Pair Objective 2x/4x, Working Distance 100mm Track Stand With Frosted Glass Stage Dia.90mm Up Coaxial LED, Bottom 1W LED As Standard, Up Oblique LED Optional



2x/4x, with coaxial LED inside.



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TO-EDU

A22.1309 Stereo Microscope
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Head	Binocular Head, Inclined 45°, Interpupillary Distance 55-75mm, With A Diopter Adaptor On The Right Eyepiece Tube
Eyepiece	WF10x/18mm
Objective	2x/4x
Working Distance	100mm
Stage	Ø95mm, 1 Pc Frosted Glass Stage(For Bottom Illumination)
Focus	Coarse Focusing, Focusing Range 100mm
Stand	Track Stand, Base Size 25x21x5cm, Height 31cm
Illumination	UpCoaxial LED, Bottom 1W LED (Brightness Adjustable), Up Oblique LED Optional
Power Supply	110~240V Wide Range Power Supply

# A23.1501 Zoom Stereo Microscope, 0.8~5x

OPTO-EDU



Zoom Stereo 0.8x~5.0x, Total Magnification Up To 4x~200x With Auxiliary Lens & Eyepiece Super Wide Field Plan Eyepiece WF10x/22mm Diopter Adjustable, WF15x, WF20x Optional Auxiliary Lens 0.5x, 0.7x, 2.0x Optional To Enlarge Magnification and Working Distance Large Track Stand With Up/Bottom LED Light In Square & Fan Shape For Choice A56.1522 Extra 60 LEDs Ring Light Source Optional For More Illumination

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	A23.1501 Zoom Stereo Microscope	<b>B1</b>	<b>T1</b>	<b>B2</b>	<b>T2</b>	<b>B3</b>	<b>T3</b>	<b>B4</b>	<b>T4</b>
Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Range 52mm~75mm	ο		ο		0		ο	
пеац	Trinocular Head, 45° Inclined, 360° Rotatable, Interpupillary Range 52mm~75mm, Light Spilt Ratio E30:P70, With 1.0x C-Mount		0		0		0		o
Magnification	8x~50x, Up To 4x~200x With Optional Eyepieces & Auxiliary Objec	tive							
Eyepiece	WF10x/22mm, Diopter Adjustment -8~+5°								
Zoom Lens	0.8~5.0x								
Zoom Ratio	1:6.5								
Zoom Knob	Zoom Knob With Click Stop At 1x,2x,3x,4x								
Working Distance	115mm, Up To 45~211mm With Auxiliary Objective								
Focusing	Coarse Focusing Knob With Tension Adjustable, Focusing Range 100mm								
Working Stage	Glass Plate Dia.125mm			_	-				
	Big Fan Base Track Stand, No Light	0	0						
Base &	Big Fan Base Track Stand, With Up/Bottom LED			0	0				
Light Source	Big Square Base Track Stand, No Light					0	0		
	Big Square Base Track Stand, With Up/Bottom LED							0	0
	A23.1501 Zoom Stereo Microscope Optional Accessories			•			ten	n No.	
	WF10x/22mm, Diopter Adjustment -8~+5°					A51.	152	2-10	
Eyepiece	WF15x/16mm, Diopter Adjustment -8~+5°					A51.	152	2-15	
	WF20x/12.5mm, Diopter Adjustment -8~+5°					A51.	152	2-20	
	0.5x/220mm					A52.1522-05			
Auxiliary Objecti	ive 0.7x/137mm					A52.	152	2-07	
	2.0x/45mm					A52.	152	2-20	
Light Source	LED Ring Light 60 LEDs					A56.	152	2	

# A23.1502 Zoom Stereo Microscope, 0.7x~4.5x





Zoom Stereo 0.7x~4.5x, Total Magnification Up To 3.5x~180x With Auxiliary Lens & Eyepiece Trinocular Head, 45° Inclined, 360° Rotatable, ±5 Diopter Adjustable Wide Field Plan Eyepiece WF10x/20mm, WF15x, WF20x Optional Auxiliary Lens 0.5x, 0.75x, 2.0x Optional To Enlarge Magnification and Working Distance Large Pole Stand With Up/Bottom LED Light In Square & Fan Shape For Choice



# **Product Specification**

ļ	A23.1502 Zoom Stereo Microscope	<b>B1</b>	<b>T1</b>	B31	<b>T31</b>	<b>B32</b>	<b>T32</b>		
lland	Binocular Head, 45° Inclined, 360° Rotatable, ±5 Diopter Adjustable, Interpupillary Adjustment 54- 75mm	о		ο		о			
Head	Trinocular Head, 45° Inclined, 360° Rotatable, ±5 Diopter Adjustable, Interpupillary Adjustment 54- 75mm, With Eyepiece Adapter + 1.0x C-Mount		ο		о		ο		
Magnification	7x-45x, Up to 3.5x-180x With Optional Eyepieces & A	uxilia	y Obj	ectives	;				
Eyepiece	WF10x/20mm, High Eyepoint								
Zoom Lens	0.7~4.5x								
Zoom Ratio	1:6.5								
Working Distance	100mm, Up To 30~177mm With Auxiliary Objectives								
Field of View	1~95.2mm								
Focusing	Coarse Focusing Knob								
Light Source	No Light Upper/Bottom LED, Brightness Adjustable	0	0	0	0	0	0		
	ST1 Square Base Pole Stand, Height 248mm, Base 200*255*22mm	0	0		0	0	0		
Stand	BL3 Big Fan Base Pole Stand, With Up/Bottom LED			0	0				
	BL3 Big Square Base Pole Stand, With Up/Bottom LED					о	о		
A23.1502 Zo	oom Stereo Microscope Optional Accessories			Cata	. No.				
Eyepiece	WF15x/15mm, High-Eyepoint WF20x/10mm, High-Eyepoint	A51.1520-15 A51.1520-20							
	0.5x,W.D. 177mm	A52.1520-05							
Auxiliary Lens	0.75x,W.D. 120mm	A52.1520-75							
_	2.0x,W.D. 30mm			A52.1	520-20	)			
CCD Adapter	Eyepiece Adapter + 0.5x C-Mount			A55.1	520-05	5			

# **Product Accessories**

	A23.1502 Zoom Stereo Microscope Optical Data Sheet							
Objective	Standard 1.0x		Auxiliary 0.5x		Auxiliary 0.75x		Auxiliary 2.0x	
W,D.	100mm		177mm		120mm		30mm	
Eyepiece	Mag	View Field	Mag	View Field	Mag	View Field	Mag	View Field
10X/20mm	7.0X	28.6mm	3.5X	57.1mm	5.25x	43.8mm	14X	14.3mm
107/201111	45.0X	4.4mm	22.5X	8.9mm	45x	6.5mm	90X	2.2mm
15X/15mm	10.5X	21.1mm	5.25X	42.8mm	7.87x	31.8mm	21X	10.7mm
157/15000	67.5X	3.3mm	33.75X	6.7mm	50.6x	4.7mm	135X	1.7mm
20X/10mm	14.0X	14.3mm	7.0X	28.6mm	10.5x	23.9mm	28X	7.1mm
207/10/11/1	90.0X	2.2mm	45.0X	4.4mm	67.5x	3.6mm	180X	1.1mm

# A23.1503 Zoom Stereo Microscope, 0.7-4.5x, Mobile Phone Repair

### OPTO-EDU

0.7~4.5x High Quality Optical System Zoom Stereo Microscope Large Alloy Soft Pad Working Area For Phone Repair Stand 480x320mm, 38M HDMI+USB Digital Camera & LCD Screen Camera Optional Upper 56 LEDs Right Light Brightness Adjustable Optional WF15x, WF20x Eyepiece, Auxiliary Lens 0.5x, 2.0x Optional

	A23.1503 DIY Phone PCB Repair Microscope				
Head	Trinocular Head, Both Eye Tube Diopter Adjustable Light Split Switch E100:P0/E0:P100 With Eyepiece Adapter + 1.0x C-Mount				
Eyepiece	WF10x/20mm, Both With Eye-cup				
Zoom Lens	0.7~4.5x				
Zoom Ratio	1:6.5				
Magnification	7x-45x, Up To 3.5x-180x With Optional Eyepieces And Auxiliary	Lens			
W.D.	Working Distance100mm, With Standard 1.0x Lens				
F.O.V	Field Of View 1~95.2mm				
Stand	Large Pole Stand, Size 480x320mm, Pole Height 240mm, Dia.32 Rubber Pad, Working Area For Phone PCB Repair	mm, With Heat Resist Soft			
	Optional Accessories	Cata.No.			
<b>F</b> ireniana	WF15x/15mm, High-eyepoint	A51.1520-15			
Eyepiece	WF20x/10mm, High-eyepoint	A51.1520-20			
	0.5x,W.D. 177mm	A52.1520-05			
Auxiliary Lens	0.75x,W.D. 120mm	A52.1520-75			
-	2.0x,W.D. 30mm	A52.1520-20			
Light Source	Upper 56 LEDs Right Light Brightness Adjustable	A56.2103-A			
	HDMI+USB+TF Digital Camera, 38.0M, USB Measure	A59.4231			
Digital Camera	7" LCD Digital Camera, AV Output	A59.5107			
-	9" LCD Digital Camera, AV Output	A59.5109			
CCD Adapter	Eyepiece Adapter + 0.5x C-Mount	A55.1520-05			

	A23.1503 Zoom Stereo Microscope Optical Data Sheet							
Objective	Standard 1.0x		Auxiliary 0.5x		Auxiliary 0.75x		Auxiliary 2.0x	
W,D.	100mm		177mm		120mm		30mm	
Eyepiece	Mag	View Field	Mag	View Field	Mag	View Field	Mag	View Field
101/2010-00	7.0X	28.6mm	3.5X	57.1mm	5.25x	43.8mm	14X	14.3mm
10X/20mm	45.0X	4.4mm	22.5X	8.9mm	45x	6.5mm	90X	2.2mm
157/15-00-00	10.5X	21.1mm	5.25X	42.8mm	7.87x	31.8mm	21X	10.7mm
15X/15mm	67.5X	3.3mm	33.75X	6.7mm	50.6x	4.7mm	135X	1.7mm
201/40	14.0X	14.3mm	7.0X	28.6mm	10.5x	23.9mm	28X	7.1mm
20X/10mm	90.0X	2.2mm	45.0X	4.4mm	67.5x	3.6mm	180X	1.1mm

# A22.3660 Step Zoom Stereo Microscope, 2x/4x



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Step Zoom 2x/4x Objective, Optional 1x/3x, 1x/2x Binocular Head 45° Inclined, 360° Rotatable High-Eyepoint Eyepiece WF10X20mm, WF15x/16mm, WF20x/11mm Magnification 20x/40x, Up To 10x-80x With Optional Eyepieces & Objectives 35 Kinds Stand Optional, Details See A54.3630

A22.3660, A22.3660N	Series Zoom Stereo	Microscope S	peicification
			poroniounon

Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Distance 54-76mm, Right Eyepiece Tube Diopter Adjustable +/-5°					
Eyepiece	WF10x/20mm Wide Field, High Eyepoint					
	Turret Objective 2x/4x, Standard					
Objective	Turret Objective 1x/2x Optional					
	Turret Objective 1x/3x Optional					
Magnification	20x/40x, Up To 10x-80x With Optional Eyepieces & Objectives					
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable Track Stand Coarse Focusing Range 74mm, Tension Adjustable					
Working Distance	100mm					
Stand	<b>35 Kinds</b> Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A22.3660-B1, A22.3660N-B1 Means Binocular Head With B1 Stand					

	A22.3660, A22.3660N Optical Data Sheet							
	Working Distance 100mm							
Objective	Objectiv	/e 1x	Objective 2x		Objective 3x		Objective 4x	
Eyepiece	Magnification	View Field	Magnification	View Field	Magnification	View Field	Magnification	View Field
WF10x/20mm	10x	20.0mm	20x	10.0mm	30x	7.5mm	40x	5.0mm
WF15x/15mm	15x	15.0mm	30x	7.5mm	45x	5.0mm	60x	3.3mm
WF20x/10mm	20x	10.0mm	40x	5.0mm	60x	3.3mm	80x	2.5mm

# A22.3660N

Step Zoom Stereo Microscope, 2x/4x



	Cata.No.	
	WF10x/20mm, High Eyepoint, Dia.30mm	A51.3621-1020
	WF15x/15mm, High Eyepoint, Dia.30mm	A51.3621-1515
	WF20x/10mm, High Eyepoint, Dia.30mm	A51.3621-2010

Binocular Head, 45° Inclined, 360° Rotatable Wide Field, High-Eyepoint Eyepiece-WF10X20mm Standard Turret Objective 2x/4x, Optional 1x/3x, 1x/2x Total Magnification 20x/40x, Up To 10x-80x With Optional Eyepieces & Objectives 35 Kinds Stand Optional, Details See A54.3630

A22.3660, A22.3660N Series Zoom Stereo Microsco	pe Speicification
AZZIOUU, AZZIOUUN OCHOS ZOOM OLEICO MICIOSOO	pe operation

Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Distance 54-76mm, Right Eyepiece Tube Diopter Adjustable +/-5°					
Eyepiece	WF10x/20mm Wide Field, High Eyepoint					
	Turret Objective 2x/4x, Standard					
Objective	Turret Objective 1x/2x Optional					
	Turret Objective 1x/3x Optional					
Magnification	20x/40x, Up To 10x-80x With Optional Eyepieces & Objectives					
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable					
rocusing	Track Stand Coarse Focusing Range 74mm, Tension Adjustable					
Working Distance	100mm					
Stand	<b>35 Kinds</b> Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A22.3660-B1, A22.3660N-B1 Means Binocular Head With B1 Stand					

	A22.3660, A22.3660N Optical Data Sheet							
			Working [	Distance 10	)0mm			
Objective	Objective 1x Objectiv			/e 2x	Objectiv	ve 3x	Objective 4x	
Eyepiece	Magnification	View Field	Magnification	View Field	Magnification	View Field	Magnification	View Field
WF10x/20mm	10x	20.0mm	20x	10.0mm	30x	7.5mm	40x	5.0mm
WF15x/15mm	15x	15.0mm	30x	7.5mm	45x	5.0mm	60x	3.3mm
WF20x/10mm	20x	10.0mm	40x	5.0mm	60x	3.3mm	80x	2.5mm

# A22.3670 Stereo Microscope

#### OPTO-EDU

Binocular Head, 45° Inclined, 360° Rotatable Wide Field, High-Eyepoint Eyepiece-WF10X23mm Standard Turret Objective 2x/4x, Optional 1x/3x, 1x/2x Total Magnification 20x/40x, Up To 10x-120x With Optional Eyepieces & Objectives 35 Kinds Stand Optional, Details See A54.3630

	A22.3670 Series Zoom Stereo Microscope Speicification				
Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Distance 54-75mm, Both Eyepiece Tube Diopter Adjustable +/-5°				
Eyepiece	WF10x/23mm Super Wide Field, High Eyepoint				
	Turret Objective 2x/4x, Standard				
Objective	Turret Objective 1x/2x Optional				
	Turret Objective 1x/3x Optional				
Magnification	20x/40x, Up To 10x-120x With Optional Eyepieces & Objectives				
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable Track Stand Coarse Focusing Range 74mm, Tension Adjustable				
Working Distance	110mm				
Stand	<b>35 Kinds</b> Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A22.3670-B1 Means Binocular Head With B1 Stand				

	Optional Accessories	Cata.No.
	WF10x/23mm, High Eyepoint, Dia.30mm	A51.3621-1023
	WF15x/16mm, High Eyepoint, Dia.30mm, Diopter Adjustable	A51.3622-1516
Eyepiece	WF20x/12mm, High Eyepoint, Dia.30mm	A51.3621-2012
	WF25x/9mm, High Eyepoint, Dia.30mm, Diopter Adjustable	A51.3622-2509
	WF30x/8mm, High Eyepoint, Dia.30mm, Diopter Adjustable	A51.3622-3008

	A33.3670 Optical Data Sheet									
	Working Distance 110mm									
Objective	Objectiv	/e 1x	Objectiv	ve 2x	Objectiv	ve 3x	Objectiv	/e 4x		
Eyepiece	Magnification	View Field	Magnification	View Field	Magnification	View Field	Magnification	View Field		
WF10x/23mm	10x	23.0mm	20x	11.5mm	30x	7.8mm	40x	5.3mm		
WF15x/16mm	15x	16.0mm	30x	8.0mm	45x	5.0mm	60x	3.3mm		
WF20x/12mm	20	12.0mm	40x	6.0mm	60x	3.3mm	80x	2.5mm		
WF25x/9mm	25x	9.0mm	50x	4.5mm	75x	3.0mm	100x	2.3mm		
WF30x/9mm	30x	8.0mm	60x	4.0mm	90x	2.7mm	120x	2.0mm		

# A23.3645 Zoom Stereo Microscope, 0.7~4.5x

#### OPTO-EDU

Continous Zoom 0.7x-4.5x Binocular & Trinocular Head 7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives High Eyepoint, Dia.30mm WF10x/20mm, WF15x, WF20x, WF25x Optional Working Distance 100mm, Up To 30~165mm With Auxiliary Objectives 35 Kinds Stand Optional, Details See A54.3630

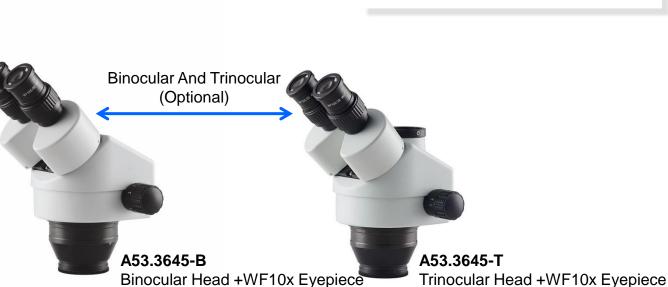


A56.2103-A LED Ring Light, 56 LEDs

Eyepieces And Auxiliary Objectives







A23.3645	, A23.3645N Series Zoom Stereo Microscope Specification	В	Т
Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, Both Eyepiece Tube $\pm 5^{\circ}$ Diopter Adjustable	•	
	Trinocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, Both Eyepiece Tube ±5° Diopter Adjustable, With Eyepiece Adapter Focus Adjustable, Light Split Fixed P50:E50, <b>Simul Focal Design</b> To Show Image On Both Eyepiece & Photo Port At Same Time		•
Eyepiece	WF10x/20mm, High Eyepoint, Dia.30mm		
Zoom Lens	0.7x~4.5x		
Zoom Ratio	1:6.5		
Magnification	7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives		
Working Distance	100mm, Up To 30~165mm With Auxiliary Objectives		
Field Of View	0.9-57.1mm (Detail See Optical Data Sheet)		
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable Track Stand Coarse Focusing Range 74mm, Tension Adjustable		
Stand	35 Kinds Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A23.3645-B1 Means Binocular Head With B1 Stand A23.3645-B1T Means Trinocular Head With B1 Stand		

A23.3645, A23.3645N Series Zoom Stereo Microscope Optical Data Sheet								
Zoo	om Lens		0.7x~4.5x					
Auxi	liary Lens	0.5x	1.0x (Standard)	1.5x	2.0x			
Workir	ng Distance	165mm	100mm	45mm	30mm			
W/E10v/20mm	Magnification	3.5x-22.5x	7.0x-45x	10.5x-67.5x	14x-90x			
WF10x/20mm	View Field(mm)	57.1-8.9	28.6-4.4	19-3	14.3-2.2			
	Magnification	5.25x-33.75x	10.5x-67.5x	15.75x-101.25x	21x-135x			
WF15x/15mm	View Field(mm)	42.8-6.7	21.1-3.3	14.3-2.2	10.7-1.7			
W/E20v/10mm	Magnification	7.0x-45x	14.0x-90x	21.0x-135x	28x-180x			
WF20x/10mm	View Field(mm)	28.6-4.4	14.3-2.2	9.5-1.5	7.1-1.1			
	Magnification	8.85x-56.3x	17.5x-112.5x	26.2x-168.8x	35x-225x			
WF25x/9mm	View Field(mm)	25.4-4.0	12.9-2.0	8.6-1.3	6.4-1.0			
	Magnification	10.5x-67.5x	21x-135x	31.5x-202.5x	42x-270x			
WF30x/8mm	View Field(mm)	22.9-3.6	11.4-1.8	7.6-1.2	5.7-0.9			

	Optional Accessories	Cata.No.
Head	Binocular Head + WF10x/20mm	A53.3645-B
neau	Trinocular Head + WF10x/20mm	A53.3645-T
	WF10x/20mm, High Eyepoint, Dia.30mm	A51.3621-1020
	WF15x/15mm, High Eyepoint, Dia.30mm	A51.3621-1515
Eyepiece	WF20x/10mm, High Eyepoint, Dia.30mm	A51.3621-2010
	WF25x/9mm, High Eyepoint, Dia.30mm	A51.3621-2509
	WF30x/8mm, High Eyepoint, Dia.30mm, Diopter Adjustable	A51.3622-3008
	0.5x, W.D. 165mm	A52.3621-05
Auxiliary Lens	1.5x, W.D. 45mm	A52.3621-15
	2.0x, W.D. 30mm	A52.3621-20
	Eyepiece Adapter Focus Adjustable	A55.3623-E
CCD Adapter	1.0x, Focus Adjustable	A55.3623-10
	0.50x, Focus Adjustable, For 1/2"CCD	A55.3623-05
	0.35x, Focus Adjustable, For 1/3"CCD	A55.3623-35

## A23.3645N Zoom Stereo Microscope, 0.7~4.5x

#### OPTO-EDU

Continuance Zoom 0.7x-4.5x Binocular & Trinocular Head 7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives High Eyepoint, Dia.30mm WF10x/20mm, WF15x, WF20x, WF25x Optional Working Distance 100mm, Up To 30~165mm With Auxiliary Objectives 35 Kinds Stand Optional, Details See A54.3630



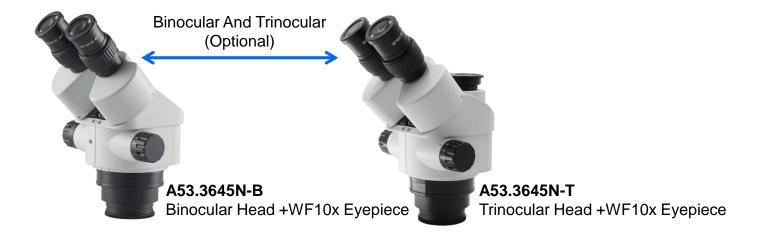
A56.2103-A LED Ring Light, 56 LEDs



LED Ring Light

0.7x-4.5x, Magnification Up To 3.5x-180x With Optional **Eyepieces And Auxiliary Objectives** 





A23.3645	, A23.3645N Series Zoom Stereo Microscope Specification	В	Т
Head	Binocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, Both Eyepiece Tube ±5° Diopter Adjustable,	•	
	Trinocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, Both Eyepiece Tube ±5° Diopter Adjustable, With Eyepiece Adapter Focus Adjustable, Light Split Fixed P50:E50, <b>Simul Focal Design</b> To Show Image On Both Eyepiece & Photo Port At Same Time		•
Eyepiece	WF10x/20mm, High Eyepoint, Dia.30mm		
Zoom Lens	0.7x~4.5x		
Zoom Ratio	1:6.5		
Magnification	7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives		
Working Distance	100mm, Up To 30~165mm With Auxiliary Objectives		
Field Of View	0.9-57.1mm (Detail See Optical Data Sheet)		
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable Track Stand Coarse Focusing Range 74mm, Tension Adjustable		
Stand	35 Kinds Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A23.3645-B1 Means Binocular Head With B1 Stand A23.3645-B1T Means Trinocular Head With B1 Stand		

A23.3645, A23.3645N Series Zoom Stereo Microscope Optical Data Sheet								
Zoo	om Lens		0.7x~4.5x					
Auxi	liary Lens	0.5x	1.0x (Standard)	1.5x	2.0x			
Workir	ng Distance	165mm	100mm	45mm	30mm			
W/E10v/20mm	Magnification	3.5x-22.5x	7.0x-45x	10.5x-67.5x	14x-90x			
WF10x/20mm	View Field(mm)	57.1-8.9	28.6-4.4	19-3	14.3-2.2			
	Magnification	5.25x-33.75x	10.5x-67.5x	15.75x-101.25x	21x-135x			
WF15x/15mm	View Field(mm)	42.8-6.7	21.1-3.3	14.3-2.2	10.7-1.7			
W/E20v/10mm	Magnification	7.0x-45x	14.0x-90x	21.0x-135x	28x-180x			
WF20x/10mm	View Field(mm)	28.6-4.4	14.3-2.2	9.5-1.5	7.1-1.1			
	Magnification	8.85x-56.3x	17.5x-112.5x	26.2x-168.8x	35x-225x			
WF25x/9mm	View Field(mm)	25.4-4.0	12.9-2.0	8.6-1.3	6.4-1.0			
	Magnification	10.5x-67.5x	21x-135x	31.5x-202.5x	42x-270x			
WF30x/8mm	View Field(mm)	22.9-3.6	11.4-1.8	7.6-1.2	5.7-0.9			

	Optional Accessories	Cata.No.
Head	Binocular Head + WF10x/20mm	A53.3645-B
neau	Trinocular Head + WF10x/20mm	A53.3645-T
	WF10x/20mm, High Eyepoint, Dia.30mm	A51.3621-1020
	WF15x/15mm, High Eyepoint, Dia.30mm	A51.3621-1515
Eyepiece	WF20x/10mm, High Eyepoint, Dia.30mm	A51.3621-2010
	WF25x/9mm, High Eyepoint, Dia.30mm	A51.3621-2509
	WF30x/8mm, High Eyepoint, Dia.30mm, Diopter Adjustable	A51.3622-3008
	0.5x, W.D. 165mm	A52.3621-05
Auxiliary Lens	1.5x, W.D. 45mm	A52.3621-15
	2.0x, W.D. 30mm	A52.3621-20
	Eyepiece Adapter Focus Adjustable	A55.3623-E
CCD Adapter	1.0x, Focus Adjustable	A55.3623-10
	0.50x, Focus Adjustable, For 1/2"CCD	A55.3623-05
	0.35x, Focus Adjustable, For 1/3"CCD	A55.3623-35

# A23.3645N-R1

LCD Digital Zoom Stereo Microscope, Mobile Phone Repair





38M HDMI+USB Digital Camera & LCD Screen Camera
0.7~4.5x High Quality Optical System Zoom Stereo Microscope
Trinocular Head Light Split 5:5 Support View Image In Eyepiece & LCD At Same Time
Upper 56 LEDs Right Light Brightness Adjustable
Professional Soft Pad Working Area For MobilePhone Repair On Stand



A23.3645N-R1







A23.3645N-R1L1

DIY	A23.3645N-R1 Series Phone PCB Repair Microscope	A23.3645N- R1	A23.3645N- R1L1	A23.3645N- R1H1	
	Trinocular Head, With Eyepiece Adapter	•			
Head	LCD Screen 9" With Digital Camera, AV Output		•		
lieau	HDMI+USB Digital Camera 38.0M Pixels			•	
	45° Inclined, 360°Rotatable, Both Tube ±5 Adjustment 54-75mm	Diopter Adjus	table, Interpu	oillary	
Eyepiece	WF10x/20mm, Both With Eye-cup				
Zoom Lens	0.7~4.5x				
Zoom Ratio	1:6.5				
Magnification	7x-45x, Up To 3.5x-180x With Optional Ey	epieces And A	uxiliary Lens		
W.D.	Working Distance100mm, With Standard 7	1x Lens			
F.O.V	Field Of View 1~95.2mm				
Stand	Pole Stand, Size 200*255*22mm, Pole He Resist Soft Rubber Pad, Working Area Fo	•		th Heat	
Light Source	Upper 56 LEDs Right Light Brightness Adj	ustable			
	Optional Accessories		Cata	.No.	
	WF15x/15mm, High-eyepoint		A51.36	21-1515	
Eveniese	WF20x/10mm, High-eyepoint		A51.3621-2010		
Eyepiece	WF25x/9mm, High-eyepoint		A51.36	21-2509	
	WF30x/8mm, High-eyepoint	A51.36	21-3008		
A !!!	0.5X,W.D. 165mm		A52.36	21-0.5x	
Auxiliary Lens	1.5X,W.D. 45mm		A52.36	21-1.5x	
	2.0X,W.D. 30mm	A52.36	21-2.0x		

A23.3645N Zoom Stereo Microscope Optical Data Sheet								
Objective	Standa	ard 1.0x	Auxilia	ry 0.5X	Auxilia	Auxiliary 1.5X		ary 2X
W,D.	100	mm	165	mm	45r	nm	301	mm
Eyepiece	Mag	View Field	Mag	View Field	Mag	View Field	Mag	View Field
10X/20mm	7.0X	28.6mm	3.5X	57.1mm	10.5X	19mm	14X	14.3mm
107/2011111	45.0X	4.4mm	22.5X	8.9mm	67.5X	3mm	90X	2.2mm
15X/15mm	10.5X	21.1mm	5.25X	42.8mm	15.75X	14.3mm	21X	10.7mm
15X/15mm	67.5X	3.3mm	33.75X	6.7mm	101.25X	2.2mm	135X	1.7mm
20X/10mm	14.0X	14.3mm	7.0X	28.6mm	21.0X	9.5mm	28X	7.1mm
207/1011111	90.0X	2.2mm	45.0X	4.4mm	135.0X	1.5mm	180X	1.1mm

# A23.3645N-R2

OPTO-EDU

LCD Digital Zoom Stereo Microscope, Mobile Phone Repair





DIY	A23.3645N-R2 Series Phone PCB Repair Microscope	A23.3645N- R2	A23.3645N- R2L1	A23.3645N- R2H1			
	Trinocular Head, With Eyepiece Adapter	•					
Head	LCD Screen 9" With Digital Camera, AV Output		•				
lieau	HDMI+USB Digital Camera 38.0M Pixels			•			
	45° Inclined, 360°Rotatable, Both Tube ±5 Diopter Adjustable, Interpupillary Adjustment 54-75mm						
Eyepiece	WF10x/20mm, Both With Eye-cup						
Zoom Lens	0.7~4.5x						
Zoom Ratio	1:6.5						
Magnification	7x-45x, Up To 3.5x-180x With Optional Ey	epieces And A	uxiliary Lens				
W.D.	Working Distance100mm, With Standard	1x Lens					
F.O.V	Field Of View 1~95.2mm						
Stand	Large Pole Stand, Size <b>200*255*8mm</b> , Po Resist Soft Rubber Pad, Working Area For			n, With Heat			
Light Source	Upper 56 LEDs Right Light Brightness Adj	ustable					
	Optional Accessories		Cata	a.No.			
	WF15x/15mm, High-eyepoint		A51.362	21-1515			
Eveniego	WF20x/10mm, High-eyepoint		A51.362	21-2010			
Eyepiece	WF25x/9mm, High-eyepoint		A51.3621-2509				
	WF30x/8mm, High-eyepoint	A51.36	21-3008				
A	0.5X,W.D. 165mm		A52.36	21-0.5x			
Auxiliary Lens	1.5X,W.D. 45mm		A52.36	21-1.5x			
	2.0X,W.D. 30mm	A52.36	21-2.0x				

A23.3645N Zoom Stereo Microscope Optical Data Sheet								
Objective	Standa	rd 1.0x	Auxilia	ry 0.5X	Auxiliary 1.5X		Auxiliary 2X	
W,D.	100	mm	165	mm	45r	nm	30mm	
Eyepiece	Mag	View Field	Mag	View Field	Mag	View Field	Mag	View Field
4.01//2010000	7.0X	28.6mm	3.5X	57.1mm	10.5X	19mm	14X	14.3mm
10X/20mm	45.0X	4.4mm	22.5X	8.9mm	67.5X	3mm	90X	2.2mm
15X/15mm	10.5X	21.1mm	5.25X	42.8mm	15.75X	14.3mm	21X	10.7mm
15/1500	67.5X	3.3mm	33.75X	6.7mm	101.25X	2.2mm	135X	1.7mm
20X/10mm	14.0X	14.3mm	7.0X	28.6mm	21.0X	9.5mm	28X	7.1mm
	90.0X	2.2mm	45.0X	4.4mm	135.0X	1.5mm	180X	1.1mm

# A23.3667 Zoom Stereo Microscope, 0.67~4.5x

#### OPTO-EDU

Continuance Zoom 0.67x-4.5x Binocular & Trinocular Head 6.7x-45x, Up To 2x-270x With Optional Eyepieces & Auxiliary Objectives High Eyepoint, Dia.30mm WF10x/20mm Diopter Adjustable, WF15x, WF20x, WF25x Optional Working Distance 105mm, Up To 26~287mm With Auxiliary Objectives 35 Kinds Stand Optional, Details See A54.3630

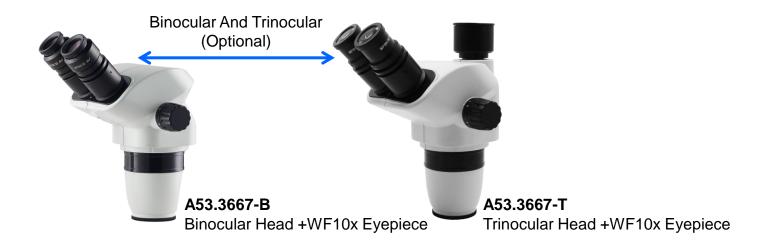


A56.2103-A LED Ring Light, 56 LEDs

**Eyepieces And Auxiliary Objectives** 







A23.36	67 Series Zoom Stereo Microscope Specification	В	т
	Binocular Head, 45° Inclined, 360°Rotatable, Interpupillary Adjustment 54-75mm	•	
Head	Trinocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, With Eyepiece Adapter Focus Adjustable, Light Split Fixed P50:E50, <b>Simul Focal Design</b> To Show Image On Both Eyepiece & Photo Port At Same Time		•
Eyepiece	WF10x/22mm, Dia.30mm, High Eyepoint, Diopter Adjustable		
Zoom Range	0.67x~4.5x		
Zoom Ratio	1:6.7		
Magnification	6.7~45x, Up To 2x-270x With Optional Eyepieces & Auxiliary Objectives	5	
Working Distance	105mm, Up To 26~287mm With Auxiliary Objectives		
Field Of View	0.9-109.5mm (Detail See Optical Data Sheet)		
Focusing	Pole Stand Coarse Focusing Range 50mm, Tension Adjustable Track Stand Coarse Focusing Range 74mm, Tension Adjustable		
Stand	35 Kinds Stand Optional, Details See <u>A54.3630</u> Choose Model According To Cata. No. Like: A23.3667-B1 Means Binocular Head With B1 Stand A23.3667-B1T Means Trinocular Head With B1 Stand		

	Optional Accessories	Cata.No.
Head	Binocular Head + WF10x/20mm	A53.3667-B
	Trinocular Head + WF10x/20mm	A53.3667-T
	WF10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	A51.3622-1022
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	A51.3622-1516
Eyepiece	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	A51.3622-2012
	WF25x/9mm, High Eyepoint, Diopter Adjustable, Dia.30mm	A51.3622-2509
	WF30x/8mm, High Eyepoint, Diopter Adjustable, Dia.30mm	A51.3622-3008
	0.3x, W.D. 287mm	A52.3622-03
	0.5x, W.D. 177mm	A52.3622-05
	0.7x, W.D. 113mm	A52.3622-07
Auxiliary Lens	0.75x, W.D. 116mm	A52.3622-75
	1.5x, W.D. 47mm	A52.3622-15
	2.0x, W.D. 26mm	A52.3622-20
	Eyepiece Adapter Focus Adjustable	A55.3623-E
	1.0x, Focus Adjustable	A55.3623-10
CCD Adapter	0.50x, Focus Adjustable, For 1/2"CCD	A55.3623-05
	0.35x, Focus Adjustable, For 1/3"CCD	A55.3623-35

	A23.3667 Series Zoom Stereo Microscope Optical Data Sheet											
Zoon	n Lens		0.67x~4.5x									
Auxilia	ary Lens	0.3x	0.5x	0.7x	0.75x	1.0x(Standard)	1.5x	2.0x				
Working	Distance	287mm	177mm	120mm	117mm	105mm	47mm	26mm				
W/E10x/22mm	Magnification	2.0-13.5x	3.4-22.5x	4.7x-31.5x	5.0-33.8x	6.7-45.0x	10.1-67.5x	13.4-90.0x				
WF10x/22mm	View Field(mm)	109.5-16.3	65.7-9.8	46.9-6.9	43.8-6.5	32.8-4.9	21.9-3.3	16.4-2.4				
WF15x/16mm	Magnification	3.0-20.3x	5.0-33.8x	7x-47.2x	7.5-50.6x	10.1-67.5x	15.1-101.3x	20.1-135x				
WF15X/10000	View Field(mm)	79.6-11.9	47.8-7.1	34.1-5.1	31.8-4.7	23.9-3.6	15.9-2.4	11.9-1.8				
W/E00x/10mm	Magnification	4.0-27.0x	6.7-45.0x	9.3x-63x	10.1-67.5x	13.4-90.0x	20.1-135.0x	26.8-180x				
WF20x/12mm	View Field(mm)	59.7-8.9	35.8-5.3	25.6-3.8	23.9-3.6	17.9-2.7	11.9-1.8	9-1.3				
	Magnification	5.0-33.8x	8.4-56.3x	11.7x-78.7x	12.6-84.4x	16.8-112.5x	25.1-168.8x	33.5-225x				
WF25x/9mm	View Field(mm)	44.8-6.7	26.9-4.0	19.2-2.8	17.9-2.7	13.4-2.0	9.0-1.3	6.7-1.0				
W/E20v/9mm	Magnification	6.0-40.5x	10.2-67.5x	14.1x-94.5x	15.0-101.4x	20.1-135x	30.3-202.5x	40.2-270x				
WF30x/8mm	View Field(mm)	37.3-5.6	23.8-3.6	16-2.25	14.1-2.25	11.9-1.8	7.9-1.2	6.0-0.9				

# A23.2603, A23.2604, A23.2605 Series

Zoom Stereo Microscope

#### OPTO-EDU

Greenough optical system, built-in rotating shaft zoom system.

No tilting Image in left &right light path in complete pupillary distance, No dizziness feeling after long time observing. A23.2604&A23.2605 Zoom Knob With Magnifying Stop Pin, User can limit the zoom range as per self-choice. Rotating switching to video output and input, 100% light distribution.



A23.2603-B



A23.2604-B & A23.2605-B



A23.2604-T & A23.2605-T



A23.2603-BL



A23.2604-BL & A23.2605-BL



A23.2604-TL & A23.2605-TL

Zoom Stereo Microscope General Layout Diagram



		A23.2603		A23.2604			A23.2605			05		
Items	Zoom Stereo Microscope Specification	-В	-BL	-В	- BL	-т	-TL	-В	- BL	-т	-TL	Cata. No.
	Seidentopf Head, Interpupilary Distance 50-75mm											I
	Binocular Head Inclined 40°	•	•									A23.2603-BH
	Binocular Head Inclined 35°			•	•			•	•			A23.2604/A23.2 605-BH
Head	Trinocular Head Inclined 35°, Light Split Switch					•	•			•	•	A23.2604/A23.2
	E100:P0/E0:P100 Trinocular Head Inclined 35°, Light Split Fixed			0	0	0	0	0	0	0	0	605-TH A53.2650-
	E50:P50		A 12									E50P50
	Wide Field Eyepiece, Dia.30mm, High Eyepoint, Dio	1		abi	e							454 0004 4000
Eyepiece	WF10x/22mm	••	••									A51.2621-1022
	WF10x/23mm			••	••	••	••					A51.2621-1023
	WF10x/24mm							••	••	••	••	A51.2621-1024
	0.7~4.5x	•	•									-
Zoom Lens	0.68~4.7x, Zoom Knob With Magnifying Stop Pin			•	•	•	•					-
	0.65~5.3x, Zoom Knob With Magnifying Stop Pin							•	•	•	•	
Zoom Ratio		1:	6.5		1:	6.8			1:8	8.1		
	7x~45x, Max 3.5x~180x With Optional Eyepiece &											
	Auxiliary Lens											-
Magnification	6.8x~47x, Max 3.4x~188x With Optional Eyepiece & Auxiliary Lens			•	•	•	•					
	6.5x~53x, Max 3.25x~212x With Optional Eyepiece & Auxiliary Lens							•	•	•	•	-
Working Distanc	e 108mm, With Standard 1x Lens	•	•	•	•	•	•	•	•	•	•	A54.2601-S04
	Large Track Stand, Base Size 330x300cm, No Light											
	Track Stand Focusing Range 80mm	•	0	•	0	•	0	•	0	•	0	A54.2609-T
Stand	Large Track Stand, Base Size 330x300cm,											
	Up/Bottom 3W LED	0	•	0	•	0	•	0	•	0	•	A54.2609-TL
	Track Stand Focusing Range 80mm											
Package	Carton Size 480x370x475mm, 1 Unit/Ctn											
Weight	Gross Weight: 8 kgs, Net Weight: 6.5 kgs											
	With additional objective 0.5X, arm stand bracket								h po	osit	ion.	
	No matter how much zoom magnification is, wor											
Remark:	According to the following formula for total magn											
	Total magnification = Zoom magnification×Eyepi		•							•		•
	Actual field of view=Eyepiece field of view / Zoor	n mag	gnifica	atio	n×A	١dd	itior	nal d	obje	ctiv	/e n	nagnification.
	e Is Standard outfits, "○" Is Optional Accessories		_									
Items	Zoom Stereo Microscope Opti			<b>SS</b> 0	ories	8						Cata. No.
Eyepiece	WF15X/16mm, Dia.30mm, High Eyepoint, Diopter A	-										A51.2621-1516
	WF20X/12mm, Dia.30mm, High Eyepoint, Diopter A	ajusta	able									A51.2621-2012
Auviliandana	0.5x, W.D.189mm											A52.2621-05 A52.2621-75
Auxiliary Lens	0.75x, W.D.128mm											A52.2621-75 A52.2621-20
	2.0x, W.D.36mm	Dolo	Stond			ina	Do	<b>n</b>	. 1 1	Em		
	Small Pole Stand, Base Size 300x220cm, No Light, Large Track Stand, Coaxial Coarse/Fine Focus, Bas					-		_				A54.2609-P
Stand	Stand Focusing Range 80mm	e Siz	e 330	xsu	JUCI	II, I	NOL	lgi	π, τ	rac	ĸ	A54.2609-TF
Stanu	Large Track Stand, Coaxial Coarse/Fine Focus, Bas	- 23(	)^3UU	cm	3//			l In/	Bot	tom	<b>`</b>	
	Light, Track Stand Focusing Range 80mm	6 000	77200	CIII	, 50	v LI		Οp/	DUI	lon	1	A54.2609-TFL
	1.0x, Focus Adjustable											A55.2601-SZ10
CCD Adapter	0.7x, Focus Adjustable											A55.2601-SZ07
	0.5x, Focus Adjustable											A55.2601-SZ05
Polarizing	Polarizer + Analyzer, For Stereo Microscope											A5P.2604
Connect Ring	LED Light Connect Ring											A56.2602-R
	XV Travel Range 75x56mm Stage Size 180x155x2	7mm.	Glass	s Si	ize	116	6x96	Smn	n, M	1in		
Mecahnical Stag	<sup>le</sup> Scale 0.1mm, Diameter Φ95 for Connecting stand b								• •			A54.1632
Micrometer	10 Kinds Of Regular Eyepiece Micrometer Model		=-									A58.2002
	LED Ring Light, 56 LEDs, 4.5W, AC 100~240V, Inne	er Dia	. 58m	m								A56.2103-A
Light Source	LED Cold Light, 10W-30W											A56.2617
	Cold Light Source, 150W Halogen											A56.2618

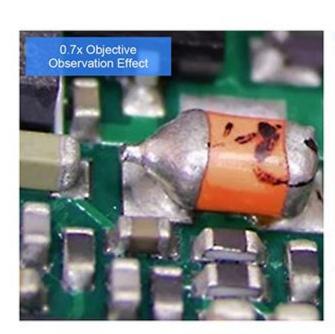
A23.2603 Technical Data							
Au	xiliary Lens	0.5x	0.75x	1x (Standard)	1.5x	2x	
Wor	king Distance	184mm	128 mm	108mm		40mm	
Eyepieces	Magnification	3.5 ~ 22.5	5.25 ~ 33.75	7 ~ 45	10.5~67.5	14~90	
10x/22mm	View Field (mm)	62.86 ~ 9.78	41.91 ~ 6.52	31.43 ~ 4.89	20.95 ~ 3.26	15.72 ~ 2.45	
Eyepieces	Magnification	5.25 ~ 33.75	7.875 ~ 50.63	10.5 ~ 67.5	15.75 ~ 101.25	21 ~ 135	
15x/16mm	View Field (mm)	48.57 ~ 7.56	32.38 ~ 5.04	24.29 ~ 3.78	16.19~2.52	12.14 ~ 1.89	
Eyepieces	Magnification	7 ~ 45	10.5 ~ 67.5	14~90	21~135	28~180	
20x/12mm	View Field (mm)	37.14~5.78	24.76 ~ 3.85	18.57 ~ 2.89	12.38 ~ 1.93	9.29~1.44	
		A23.	2604 Technical	Data			
Au	xiliary Lens	0.5x	0.75x	1x (Standard)	1.5x	2x	
Wor	king Distance	184mm	128 mm	108mm		40mm	
Eyepieces	Magnification	3.4 ~ 23.5	5.1 ~ 35.3	6.8 ~ 47	10.2 ~ 70.5	13.6 ~ 94	
10x/22mm	View Field (mm)	67.65 ~ 9.75	45.1 ~ 6.52	33.82 ~ 4.89	25.55 ~ 3.26	16.91 ~ 2.45	
Eyepieces	Magnification	5.1 ~ 35.3	7.65 ~ 52.9	10.2 ~ 70.5	15.3 ~ 105.8	20.4 ~ 141	
15x/16mm	View Field (mm)	50.0~7.23	33.33 ~ 4.82	25.0 ~ 3.62	16.67 ~ 2.41	12.5 ~ 1.81	
Eyepieces	Magnification	6.8~47	10.2 ~ 70.5	13.6 ~ 94	20.4 ~ 141	27.2 ~ 188	
20x/12mm	View Field (mm)	38.24 ~ 5.53	25.49~3.69	19.12 ~ 2.77	12.75 ~ 1.84	9.56 ~ 1.38	
		A23.	2605 Technical	Data			
Au	xiliary Lens	0.5x	0.75x	1x (Standard)	1.5x	2x	
Wor	king Distance	184mm	128 mm	108mm		40mm	
Eyepieces	Magnification	3.25 ~ 26.5	4.88 ~ 39.75	6.5 ~ 53	9.75 ~ 79.5	13~106	
10x/22mm	View Field (mm)	73.85 ~ 9.06	49.18~6.04	36.92 ~ 4.53	24.62 ~ 3.02	18.46 ~ 2.27	
Eyepieces	Magnification	4.88 ~ 39.75	7.32 ~ 59.63	9.75 ~ 79.5	14.63 ~ 119.25	19.5 ~ 159	
15x/16mm	View Field (mm)	52.25~6.42	34.84 ~ 4.28	26.15 ~ 3.21	17.43 ~ 2.14	13.08 ~ 1.6	
Eyepieces	Magnification	6.5~53	9.75 ~ 79.5	13~106	19.5 ~ 159	26~212	
20x/12mm	View Field (mm)	40~4.91	26.67 ~ 3.27	20~2.45	13.33 ~ 1.64	10~1.23	

#### Outstanding Ergonomic Design

#### **Observation Effect**

 A23.2604 & A23.2605 35° viewing angle, A23.2603 40° viewing angle, suitable for long-term sitting observation.

 Big stand, high stability, apply to all kinds of anatomy of specimen.



Stand Style



Pillar Stand



Focusing Arm Stand



# A23.0908 Zoom Stereo Microscope, 0.67~4.5x

#### OPTO-EDU

0.67x-4.5x Zoom Magnification Zoom Ratio 1:6.7 Zoom Knob With Click Stop & Magnification Lock 45° Inclined Binocular & Trinocular Head With Working Distance 110mm Pole & Track Stand With Coarse Focusing Range 50mm Transmit & Reflect LED Light Source Available

	A23.0908 Serie Zoom Stere	eo Mi							
Head	Binocular Head, 45º Inclined, Inter-pupillary Distance 52-76mm	-B4	-B5	BL1	-BL3	-ST2	-STL 1	-STL 2	Cata.No.
neau	Trinocular Head, 45º Inclined, Inter-pupillary Distance 52-76mm	-B4T	-B5T	BL1T	- BL3T	- ST2T	-STL -1T	-STL 2T	Cala.NO.
	High-Eyepoint Wide Field Plan Eyepiece PL10x/22mm, Diopter Adjustable	••	••	••	••	••	••	••	A59.0955-102
Eyepiece	High-Eyepoint Wide Field Plan Eyepiece PL15x/16mm, Diopter Adjustable	0	0	0	0	0	0	0	A51.0955-15
	High-Eyepoint Wide Field Plan Eyepiece PL20x/12mm, Diopter Adjustable	0	0	0	0	0	0	0	A51.0955-20
Lens	0.67-4.5x, W.D.=110mm, With Click Stop & Magnification Lock On Zoom Knob	•	•	•	•	•	•	•	
	0.3X/WD287mm	0	0	0	0	0	0	0	A52.0908-03
	0.4X/WD217mm	0	0	0	0	0	0	0	A52.0908-04
Auxiliary	0.5X/WD177mm	0	0	0	0	0	0	0	A52.0908-05
Objective	0.75X/WD120mm	0	0	0	0	0	0	0	A52.0908-75
	1.5X/WD47mm	0	0	0	0	0	0	0	A52.0908-15
Focus	2X/WD26mm Bracket ST70A1 With Coarse Focusing Knob, Focus Range 50mm	•	•	•	•	•	•	•	A52.0908-20
	B4 Pillar Stand, No Light Source	•							A54.0961-B4
	B5 Pillar Large Black Flat Stand, No Light Source		•						A54.0961-B5
	BL1 Track Stand, With LED Light, Reflect 15 LEDs, Transmit 75 LEDs			•					A54.0961-BL
Base	BL3 Pillar Stand, With LED Light, Reflect 15 LEDs, Transmit 75 LEDs				•				A54.0961-BL
	ST2 Pillar Large White Flat Stand, No Light Source					•			A54.0961-ST
	STL1 Single Arm Boom Pillar Stand, No Light Source						•		A54.0961-ST
	STL2 Double Arm Boom Pillar Stand, No Light Source							•	A54.0961-ST
	0.35X C-mount	0	0	0	0	0	0	0	A55.0932-35
C-Mount	0.5X C-mount	0	0	0	0	0	0	0	A55.0932-50
	0.65X C-mount	0	0	0	0	0	0	0	A55.0932-65
	1.0X C-mount	0	0	0	0	0	0	0	A55.0932-10
Packing	Inner Foam + Strong Carton Box	•	•	•	•	•	•	•	

H

# A23.0910 Zoom Stereo Microscope, Parallel Light, 0.63x~8x,1:12.5





Parallel Light Zoom Stereo Microscope 0.63x~8x Zoom Lens, Large Zoom Ratio1:12.5 5-45° Titatable Trinocular Inclination Adjustable For Easy Use PL10x/23mm High Eye-Point Wide Field Plan Eyepiece, Diopter Adjustable Upper/Bottom/Oblique/Coaxial Illumination, Polarizer & Analyzer Optional Zoom Knob Can Switch Between With/Without Click Stop



#### Head & Eyepiece

5~45° Tilting Trinocular Head, Whether Standing Or Sitting, Fully Meet Your Operating Posture High Eye-Point Wide Field Plan Eyepiece, Diopter Adjustable, With A Larger Field Of View Than Traditional Eyepieces, A Wider And Clearer Image Can Be Obtained

# **Product Specification**

A 23 0010 7	Coom Stereo Microscope Zoom Ratio 1:12.5, Parallel Light		A23.	A23. 0910-	Cata. No.
A23.0910 2	Loom Stereo Microscope Zoom Ratio 1.12.5, Paraller Light	B1	B2	B10	Gala. NO.
	5°~45° Tilting Trinocular Head, Light Splitting Switch E100:P0/E0:P100,	•	•	•	
Head	Inter-Pupillary Distance 50~76mm, With Eyepiece Lock	-			
	30° Inclined Trinocular Head, Light Splitting Fixed E50:P50,				
	Inter-Pupillary Distance 50~76mm, With Eyepiece Lock	-			
	PL10x/22mm High Eye-Point Wide Field Plan Eyepiece, Diopter				
	Adjustable	•	•	•	A51.0925-10
Eyepiece	PL15x/16mm High Eye-Point Wide Field Plan Eyepiece, Diopter Adjustable	0	0	0	A51.0925-15
	PL20x/12.5mm High Eye-Point Wide Field Plan Eyepiece, Diopter Adjustable	0	0	0	A51.0925-20
	Zoom Lens 0.63x~8x, Zoom Ratio 1:12.5,				
Lens	Built-in Aperture Diaphragm Adjustable, Main Scales On Zoom Knob 0.63x, 0.8x, 1.0x, 1.25x, 1.6x, 2.0x, 2.5x, 3.2x, 4x, 5x, 6.3x, 8x, Switch Between With/Without Click Stop	•	•	•	
	0.5x Main Objective APO, Working Distance 70.5mm	0	0	0	A52.0930-05
Auxiliary	1.0x Main Objective APO, Working Distance 78.0mm	•	•		A52.0930-03
Objective	1.5x Main Objective APO, Working Distance 73.0hm 1.5x Main Objective APO, Working Distance 31.1mm	0	0		A52.0930-10
Objective		0	0		A52.0930-15 A52.0930-20
Nacariaaa	2.0x Main Objective APO, Working Distance 20.0mm	0	0		A52.0930-20
Nosepiece Frame	Double Nosepiece Coaxial Fine & Coarse Focusing Mechanism, Intgrated Focus Holder And Stand, Focusing Range 50mm, Fine Focusing Precision		•	•	
	0.002mm				
	(B1)Plan Base	•	-	-	
	Without Illumination, With Black/White Plate Dia.100mm				
	(B2)Plan Base With Bottom Illumination Built-in Mirror 360° Rotatable + Position	-			
Base & Bottom	Adjustable	-	•	-	
Light Source	Use With Oblique Illumination 5W LED	-			
9	Forearm Holder (Matching Use With B2 Base)	-	0	-	A54.0965
	(B10)Ultra-thin Base, With Bottom Illumination 5W LED, Color Temperature 3200~5600K & Light Intensity Adjustable With Digital Readout LCD Screen	-	-	•	
Uppler	Upper Illumination:				
Light Source	Attachable LED Ring Light (200 Bulbs), Wide Voltage 100-220V	•		•	
0	Oblique Illumination:				
	External5W LEDModule,ColorTemperature 5000-5500K White Light,WideVoltage 100-220V, Output 12V5W, Power Supply BoxSize 270×100×130mm, With Single Optical Fiber	-	•	-	
	500mm (Matching Use With B2 Base) Coaxial Illumination:			·       A52.0         ·       A52.0         ·       A52.0         ·       A52.0         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·         ·       ·	
	1.5x, With 1/4 $\lambda$ , 360° Rotatable, 20W LED, Intensity Adjustable, With Power Supply Box, With Soft Double Optical Fiber 1000mm	-	-	-	
Polorizina	Polarizer Fixed On Bottom Light Source (For Transmit Light)	-	0	0	A5P.0925-P
Polarizing	Analyzer Attached Under Lens, 360° Rotatable (For Transmit Light)	-	0	0	A5P.0925-A
	0.35xC-mountAdapter,Focus Adjustable	0	0	0	A55.0930-35
A . I	0.5xC-mountAdapter, Focus Adjustable	0	0	0	A55.0930-05
Adapter	0.65xC-mountAdapter,Focus Adjustable	0	0	0	A55.0930-65
	1.0xC-mount Adapter, Focus Adjustable	0	0	0	A55.0930-10
Allen key	M4 allen key (3mm)	•	•	•	
,	Sponge And Carton, One Set/Carton, Carton Size 58.5x55x81cm		1		+

# A23.1001 Zoom Stereo Microscope, Max 0.8~8x



Parallel Optical System, Module Design to Add Function Easily Large Zoom Ratio Up to 1:10 With Tilting Head 0°-35° Viewing Angle Adjustable for User Transmit & Reflect LED Illumination, Brightness Adjustable, Working Life 6000 Hours Complete Accessories Include Polarizing, Dark Field, Fluorescent Attachment Plan Apochromatic Objective 0.5x Optional



# **Product Specification**

Parallel Optical System, Module Design to Add Function Easily					
Binocular Head 20° Inclined					
Extra Wide Field Eyepiece EWF10x/22mm, Diopter Adjustable, Interpupill	ary 55-7	75mm	1		
	-				
		0			
		-	0		
			•		
	0	0			
Coaxial Coarse & Fine Focusing Knob, Fine Division 0.015mm, Coarse Stroke 38.4mm/Rotation, Fine Stroke 1.5mm/Rotation, Moving Range 105mm, Focusing Mount Inner Dia. 76mm			ο		
Transmit & Reflect LED Illumination, Brightness Adjustable, Working Life 6	6000 Hc	ours			
A23.1001 Zoom Stereo Microscope	Cata	No.			
Titling Head 0°-35° Viewing Angle Adjustable for User					
Change to <u>A23.1005</u>					
WF15x/16mm	A51.1	1027-	1516		
WF20x/12mm	A51.1027-20				
WF30x	A51.1	1027-	30		
Plan Apochromatic Lens 0.5x	A52.1	1023-	05A		
Plan Achromatic Lens 1.0x	A52.1	1023-	10		
Plan Achromatic Lens 2.0x	o         o           0         0           0         0           0         0           6000 Hours         Cata. No.           A53.1014         A51.1027-*	20			
Achromatic Lens 0.3x	A52.1	1023-	03		
Achromatic Lens 0.5x	A52.2	1023-	05		
Coaxial Illumination Set:					
Cold Light Power Supplier,					
Dual Light Guide,	A56.1	1021			
wF15x/16mm         wF20x/12mm         wF30x         Plan Apochromatic Lens 0.5x         Plan Achromatic Lens 1.0x         Plan Achromatic Lens 2.0x         Achromatic Lens 0.3x         Achromatic Lens 0.5x         Coaxial Illumination Set:        Cold Light Power Supplier,        Dual Light Guide,        Coaxial Episcopic Illuminator,        Iris Diaphragm         Iris Diaphragm         Temperature Control Stage         Movable Working Stage         Universal Table Stand         Track Stand, Transmit & Reflect Light Source					
			2		
· · ·					
Movable Working Stage					
I Iniversal Table Stand					
	A54.′	1013			
0.8-8.0x, Zoom Ratio 1:10         uxiliary Lens       Plan Achromatic Lens 1.0x         forking Distance       78mm         Coarse Focusing Konb, Range 105mm         Coarse Stroke 38.4mm/Rotation, Fine Division 0.015mm, Coarse Stroke 38.4mm/Rotation, Fine Stroke 1.5mm/Rotation, Moving Range 105mm , Focusing Mount Inner Dia. 76mm         umination       Transmit & Reflect LED Illumination, Brightness Adjustable, Working Life 6         A23.1001 Zoom Stereo Microscope         ead       Titling Head 0°-35° Viewing Angle Adjustable for User Change to A23.1005         yepiece       WF15x/16mm         WF20x/12mm         WF30x         Plan Achromatic Lens 0.5x         Plan Achromatic Lens 1.0x         uxiliary Lens         Plan Achromatic Lens 0.5x         Plan Achromatic Lens 0.5x         Plan Achromatic Lens 0.5x         Plan Achromatic Lens 0.5x         Coaxial Illumination Set: Codi Light Power Supplier, Dual Light Guide, Coaxial Episcopic Illuminator, Iris Diaphragm         Iris Diaphragm         Iris Diaphragm         Tris Diaphragm         Iris Diaphragm	A54.′	1014			
	A54.1	1019			
	A54.′	1020			
	A54.1	1021			
	A5F.	1020			
Dark Field Attachment For Stereo Microscope	A5D.	1001			
Simple Polarizing Attachment For Stereo Microscope	A5P.	1003			
	A59.′	1006			
	A55 (	1003-	S1		
Photo Adapter 2 0x For Nikon or Canon Digital SLR Camera	455 ·		<u> </u>		
	Extra Wide Field Eyepiece EWF10x/22mm, Diopter Adjustable,Interpupill 0.8~5.0x, Zoom Ratio 1:6 0.8~6.4x, Zoom Ratio 1:7 0.8~6.4x, Zoom Ratio 1:10 Plan Achromatic Lens 1.0x 78mm Coarse Focusing Konb, Range 105mm Coarse Focusing Konb, Range 105mm Coarse Focusing Konb, Range 105mm Coarse Focusing Mount Inner Dia. 76mm Transmit & Reflect LED Illumination, Brightness Adjustable, Working Life 6 A23.1001 Zoom Stereo Microscope Titling Head 0°-35° Viewing Angle Adjustable for User Change to A23.1005 WF15x/16mm WF20x/12mm WF30x Plan Apcchromatic Lens 0.5x Plan Apcchromatic Lens 0.5x Plan Apcorhomatic Lens 0.5x Plan Apcorhomatic Lens 0.5x Coaxial Illumination Set: -Codi Light Power Supplier, -Dual Light Guide, -Coaxial Episcopic Illuminator, -Iris Diaphragm Temperature Control Stage Movable Working Stage Universal Table Stand Track Stand, Transmit & Reflect Light Source With Coarse & Fine Focusing Optional, Model -F,LikeA54.1019-F EPI-Fluorescent Attachment For Stereo Microscope Simple Polarizing Attachment For Stereo Microscope	Extra Wide Field Eyepiece EWF10x/22mm, Diopter Adjustable,Interpupillary 55- 0.8-5.0x, Zoom Ratio 1:6       o         0.8-6.4x, Zoom Ratio 1:8       o         0.8-8.0x, Zoom Ratio 1:10       Plan Achromatic Lens 1.0x         78mm       o         Coarse Focusing Konb, Range 105mm       o         Coaxial Coarse & Fine Focusing Knob, Fine Division 0.015mm, Coarse       Stroke 38.4mm/Rotation, Fine Stroke 1.5mm/Rotation, Moving Range         105mm, Focusing Mount Inner Dia. 76mm       Transmit & Reflect LED Illumination, Brightness Adjustable, Working Life 6000 Hoto         A23.1001       A23.1005       Cata         Titling Head 0°-35° Viewing Angle Adjustable for User       A53.1         Change to A23.1005       A51.1         WF15x/16mm       A51.1         WF20x/12mm       A51.1         WF30x       A51.1         VF30x       A51.1         Plan Achromatic Lens 0.5x       A52.2         Coaxial Episcopic Ill	Extra Wide Field Eyepiece EWF10x/22mm, Diopter Adjustable,Interpupillary 55-75mm         0.8-5.0x, Zoom Ratio 1:6       o         0.8-6.4x, Zoom Ratio 1:10       o         9       0.8-8.0x, Zoom Ratio 1:10       o       o         10       0.8-8.0x, Zoom Ratio 1:10       0       o       o         10       0.8-8.0x, Zoom Ratio 1:10       0       0       o       o         10       0.8-8.0x, Zoom Ratio 1:10       0       0       0       0       0         10       2.0x1       1001       1001       1001       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0		

# A24.0901-B Gem Microscope, 0.67x-4.5x







Upper Illumination 1W LED

Upper Illumination 7W Fluorescent



A52.0928-75

A52.0928-15

A52.0928-20

0.67x~4.5x Zoom Lens Total Magnifiction Up To 2x~225x Professional Jewelry Microscope Stand, With Base Rotating & Inclination Adjustable Built-in Dark Field, Bright Field Both For Jewelry Upper Illumniation 7W Fluorescent or 1W LED Transmit Illumination 6V30W Halogen Lamp

#### A24.0901 Jewelry Microscope, 0.67x-4.5x Specification Observation Ways Bright Field Transmit, Reflect and Dark Field Observation Binocular, 45° Inclined, 360° Rotatable, +/-5° Diopter Adjustable, Interpupillary Adjustment Head 54~75mm 0.67~4.5x Zoom Range Zoom Ratio 1:6.7 WF10x/22mm, Both with Eye-cup Evepiece Magnification 6.7~45x, Up to 2~225x with Auxiliary Lens Working Distance 100mm, With Standard 1x Lens. Up to 26~287mm With Auxiliary Lens Gem Clamp Wire Clamp For Bigger Objects, Flat Clamp For Smaller Objects Stand Professional Jewelry Microscope Stand, With Base Rotating and Inclination Adjustable, with Built-in Dark Field Upper Illumination 7W Fluorescent or 1W LED Illumination Transmit Illumination 6V30W Halogen Lam A24.0901 Jewelry Microscope, 0.67x-4.5x Optional Accessories WF15x/15mm Eyepiece A51.0923-15 WF20x/10mm A51.0923-20 0.3x, W.D. 287mm Auxiliary Lens A52.0928-03 0.4x, W.D. 217mm A52.0928-04 0.75x, W.D. 117mm

1.5x, W.D. 47mm

2.0x, W.D. 26mm

## A24.1001 Gem Microscope

#### OPTO-EDU

0.8x-5.0x Stereo Body Zoom Ratio 1:6.3 Total Magnification 12x~75x, With Eyepiece WF15x/16mm Working Distance 115mm, Track Stand Focusing Range 110mm Bright/Dark Field View With Dark Field Stage Track Stand 0-38° Tilltable, Base 0-325° Rotatable

#### A24.1001 Gem Microscope

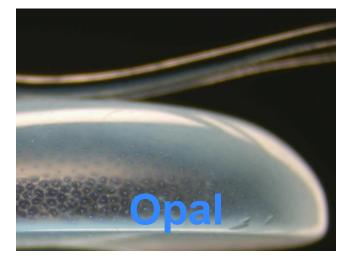
Gemological microscope is designed Gemological microscope is designed for jewelers and gem stone experts, to be one of the most important tool in their jobs. A24.1001 gemological microscope is especially designed to view precious stone samples and the pieces of jewelry that contain them. As a high level professional gemological microscope, A24.1001 is equipped with multiple illumination systems to enhance the image of the samples, will greatly improve the working efficiency.

A24.1001 gemological microscope is usually used to inspect the authenticity of gemstones and in the design, creation, and repair of jewelry. A24.1001 gemological microscope is a precision microscope that are capable of inspecting diamonds, emeralds, rubies, and all other types of precious stones.

Items	A24.1001 Gem Microscope	В	Т			
Magnification	12x~75x					
Head	Binocular Viewing Head	•				
пеац	Trinocular Viewing Head		•			
Eyepiece	WF15x/16mm, Diopter Adjustable		-			
Zoom Objective	0.8x-5x					
Zoom Ratio 1:6.3						
Working Distance	115mm					
Focusing	Coarse Focus Knob, Focusing Range 110mm, To Observing Different Sizes Gem And Sar	nple	s			
Stand	Track Stand 0-38° Tillable, Eye point Height And Incline Angle Adjustable					
Base	0-325° Rotatable					
	Reflect Light 7W Sunshine Fluorescent Lamp, Meet Requirement For Diamond View					
Illumination	Reflect Light LED Point Light					
marmination	Transmit Light 6V/20W Halogen Light, Dark Field Stage With Iris Diaphragm Dia.2mm~41	mm				
	Adjustable, To Switch Bright/Dark Field View Easily					
Gem Clamp	High Quality Steel Gem Clamp To Hold Gem Steady & Flexible For All Direction Observati	on.				
Com Clamp	There Are Two Clamp Holes To Set Gem Clamp As User's Need					

# A24.1201 Jewellery Gem Microscope, 2x/4x







2x/4x Stereo Microscope Body Total Magnification 20x/40x, With Eyepiece WF10x/20mm Incident & Transmit Both 12V10W Halogen Lamp High Quality Jewellery Tweezer To Hold Gem Steady & Flexible Dark Field Working Stage With Iris Diaphargm To Switch Bright/Dark Field

	A24.1201 Jewelry Microscope						
Head Inclined Binocular Head,360° Rotatable							
Eyepiece	Eyepiece WF10x/20mm						
Objective	2x/4x Standard, 1x/3x. 1x/2x Optional						
Incident Light	Halogen Lamp 12V/10W, Brightness Adjustable						
Transmit Light	Halogen Lamp 12V/10W, Brightness Adjustable						
Working Distance	90mm						
Marking Change	Jewellery Tweezer						
Working Stage	Dark Field Working Stage, With Iris Diaphram						
	Optional Accessories						
	WF5x/18mm	E51.1221-05					
Eyepiece	WF15x/15mm	E51.1221-15					
	WF20x/10mm	E51.1221-20					
	Optical Data Sheet						
Objetive	Working Distance	View Field					
1x	75mm	20mm					
2x	90mm	10mm					
3х	69mm	7.5mm					
4x	70mm	5mm					

# A24.1202 Jewery Microscope







1x-4x Or 0.7~3.6x Zoom Stereo Microscope Total Magnification 10x-40x Or 7x-36x, With Eyepiece SWF10x/22mm Reflect 12V10W Halogen + 10W Sunshine Fluorescent Light, Transmit 12V10W Halogen High Quality Jewellery Tweezer Tweezer To Hold Gem Steady & Flexible Dark Field Working Stage With Iris Diaphargm To Switch Bright/Dark Field

Items	A24.1202 Jewery Microscope	Α	В		
Head	Inclined Binocular Head,360° Rotatable	-			
Eyepiece	SWF10x/22mm		-		
Objective	1x-4x	•			
Objective	0.75x-3.6x		•		
Working Distance	90mm	• • • • • • • • • • • • • • • • • • •			
Working Distance	86mm		•		
View Field	22mm-5.5mm	•			
view Field	26mm-5.8mm		•		
In eident Linkt	Halogen Lamp 12V/10W, With Single Fiber				
Incident Light	Fluorescent 10W Square				
Transmit Light	Halogen Lamp 12V/10W				
Marking Ctore	Jewel Tweezer				
Working Stage	Dark Field Working Stage, With Diaphragm				
	A24.1202 Jewery Microscope , Optional Accessories				
	WF5x/18mm	E51.122	21-05		
Eveniese	WF10x/20mm	E51.122	21-10		
Eyepiece	WF15x/15mm	E51.1221-15			
	WF20x/10mm	E51.122	21-20		

# A24.1203 Jewery Microscope, 0.75~5x





0.75~5x Zoom Stereo Microscope Zoom Ratio 1:6.7 Total Magnification 7.5x-50x, With Eyepiece SWF10x/23mm Reflect 12V10W Halogen + 10W Sunshine Fluorescent Light, Transmit 12V10W Halogen High Quality Jewellery Tweezer Tweezer To Hold Gem Steady & Flexible Dark Field Working Stage With Iris Diaphargm To Switch Bright/Dark Field

Items	A24.1203 Jewery Microscope	В	т		
Head	Inclined Binocular Head,360° Rotatable	•			
neau	Inclined Trinocular Head,360° Rotatable		•		
Eyepiece	SWF10x/23mm				
Objective	0.75x~5x				
Working Distance	113mm				
View Field	23mm-5.1mm				
Incident Light	Halogen Lamp 12V/10W, With Single Fiber				
Incident Light	Fluorescent 10W Square				
Transmit Light	Halogen Lamp 12V/10W				
Marking Store	Jewel Tweezer				
Working Stage	Dark Field Working Stage, With Diaphram				
	A24.1203 Jewery Microscope , Optional Accessories				
	WF5x/18mm	E51.122	21-05		
Eveniese	WF10x/20mm	E51.122	21-10		
Eyepiece	WF15x/15mm	E51.122	21-15		
	WF20x/10mm	E51.122	21-20		

## A31.2601 Digital Biological Microscope





Back View, Observation Hole Is Convenient For Operation

Seidentopf binocular head , inclinded 30°, 360° rotatable, interpupillary distance 50-75mm Dustproof, moisture-proof, built-in chip, Built-in 3MP/5MP digital camera system Abbe Condenser N.A. 1.25, with aperture iris diaphragm Double Slides Holder, Easy To View And Compare Two Slides Flexible Knob, Comfortable Feeling, Reliable Operation

Items	A31.2601 Digital Microscope	320	500
Digital Camera	3.2M pixels, 1/2"CMOS, USB 2.0	•	
System	5.0M pixels, 1/2"CMOS, USB 2.0		•
Head	Seidentopf Binocular Head , Inclinded 30°, 360° Rotatable, Interpupillary Distance	e 50-75mm	
Eyepiece	WF10x/20mm		
Objective	InfinityEPLAN 4X/x0.10		
	InfinityEPLAN 10x/0.25		
	InfinityEPLAN 40x/0.65(S)		
	InfinityEPLAN 100x/1.25(S,O)		
Nosepiece	Quadruple Revolving Nosepiece		
Condenser	Abbe N.A.1.25 With Iris Diagram		
Focusing	Coaxial Coarse And Fine Focusing Knob		
Stage	Mechanical Stage 145x140 mm, With Imported Triangle Track, Moving Range 76x52mm		
Filter	Blue, Built-in		
Light Source	6V20W Halogen Lamp With Brightness Control (85V-265V)		
Software	Digital Image Analysis Software, for Windows2000 / XP / Vista		
Eyepiece	WF10x/18mm		602-10
	WF16x/13mm		602-16
Objective	InfinityEPLAN 20x/0.65(S)		605-20
Dark Field	Dark Field Condenser, Dry N.A.0.9	-	2601-S
Nosepiece	Upgrade to Quintule Nosepiece		610-4-5
Light Source	Upgrade to 6V 30W Halogen Lamp		2650
Light Obulce	Upgrade to 3W LED Illumination (Non Rechargable)		651-3W
Filter	Green	A56.26	609-SG
T IIIOT	Yellow	A56.26	609-SA
	Upgrade to 6V 30W Halogen Lamp		2650
Light Source	Upgrade to 3W LED Illumination (Non Rechargable)	A56.26	651-3W
	Upgrade to 0.3W LED (Rechargable, Including 3 Rechargeable Batteries)	A56.26	51-03W
Package	Carton Size 575*380*550mm, 1 Unit/Ctn		
Weight	Gross Weight 8.0kgs, Net Weight 7.0kgs		

### A31.6603 Digital Biological Microscope





Dustproof, moisture-proof, built-in chip. Light distribution 20:80, eyepiece observation synchronized with digital imaging without switching. Built-in 5MP digital camera system,1/2"CMOS color sequential scanning. USB2.0 connection without external power supply. Available for WINDOWS system.

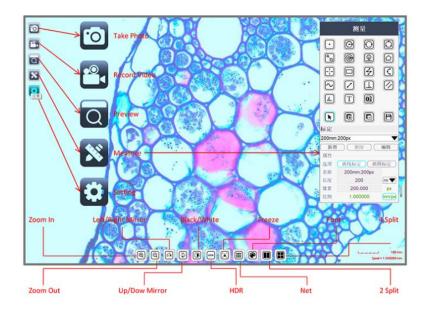
Items	A31.6603 Digital Microscope	Without holder	With holder
Digital Camera	5.0M pixels, 1/2"CMOS, USB 2.0	•	
System	5.0M pixels, 1/2"CMOS, USB 2.0		•
Head	Seidentopf Binocular Head, Inclined 30°, 360° Rotatable, Interpupillary Distanc	e 48-75mm	-
Eyepiece	WF10x/20mm		
	Infinity EPLAN 4x/0.10		
Objective	Infinity EPLAN 10x/0.25		
Objective	Infinity EPLAN 40x/0.65(s)		
	Infinity EPLAN 100x/1.25(s,o)		
Nosepiece	Quadruple Revolving Nosepiece		
Condenser	Abbe N.A.1.25 With Iris Diagram		
Focusing	Coaxial Coarse And Fine Focusing Knob		
Stage	Mechanical Stage 145x140mm, With Imported Triangle Track, Moving Range 76x52mm		
Filter	Blue, Built-in		
Light Source	3W LED With Brightness Control		
Software	Digital Image Analysis Software, for Windows2000 / XP / Vista		
Items	Optional Accessories	ltem	No.
Functions	WF10x/18mm	A51.26	02-10
Eyepiece	WF16x/13mm	A51.26	02-16
Objective	Infinity EPLAN 20x/0.65(S)	A52.26	05-20
Dark Field	Dark Field Condenser, Dry N.A.0.9	A5D.26	601-S
<b>Filter</b>	Green	A56.260	09-SG
Filter	Yellow	A56.2609-SA	
	Upgrade to 6V 30W Halogen Lamp	A56.2	2650
Light Source	Upgrade to 3W LED Illumination (Non Rechargable)	A56.265	51-3W
-	Upgrade to 3W LED (Rechargable, Including 3 Rechargeable Batteries)	A56.265	1-3WR
Note: "•"In Table	e Is Standard outfits, "o" Is Optional Accessories.		

#### A33.1009 9" LCD Digital Biological Microscope, 5.0M HDMI+USB



Will.

OPTO-EDU



9" HD LCD Screen With Measure, Photo, Video Function 5.0M HDMI Mouse Control **Measuring Function** + USB2.0 Digital Camera With TF Card Black Sedentopf Trinocular Head Light Split Switch E100:P0/E0:P100 Large Size Double Layer Mechincal Stage 140x140mm Moving 50x75mm Classical 107BN Model High Quality Optical System Microscope

#### **Product Specification**

A33.1009 Biological Microscope Specification	
Magnification	40x~1600x
Head	Sliding Trinocular Black Head, 45° Inclined, 360° Rotatable, With Eyepiece Adapter & 1.0x C-Mount
Eveniego	Wide Field WF10x/18mm
Eyepiece	Wide Field WF16x/11mm
Nosepiece	Quadruple Nosepiece
Objective	Achromatic 4x/0.10, 10x/0.25, 40xs/0.65, 100xs/1.25(Oil)
Stage	Double Layer Mechanical Stage, 140*140mm, Mvoing Range 50*75mm
Focusing	Low Position Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002mm, With Tension Adjustment, With Up Limit
Condenser	N.A.1.25 Abbe Condenser, Iris Diaphargm, With Filter Holder
Filter	Blue, Yellow, Green
Light Source	Plan-Concave Mirror
Light Source	Built-in Illumination 6V20W Halogen Lamp

	A33.1009 LCD Digital Camera Specification		
Sensor	1/2.8"Sony Star Light Level CMOS Sensor		
Resolution	5.0M CMOS		
LCD Screen	9"LCD, Resolution 1024x600 High Clearance Screen		
Output	USB 2.0 Type-A, TF Card		
Pixel Size	2.0x2.0um		
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC		
	Photo, Video, Meaure, Compare		
	SupportUSB Mouse Control To Capture Photo, Video, Measure,	Setting	
	USB 2.0 To Win 7, Win10 System, Software S-Eye Included		
Function	Brightness, Contrast, Exposure, White Balance Adjustable		
Function	10x Digital Zoom, 4 Split/ 2 Split Windows Image Compae		
	Storage To TF Card		
	Cross Line With Scale, Calibrated		
	Net Line 8 Kinds, Width & Color Adjustable		
Size / Weight	Product Size 225x52x175mm, Net Weight 0.7Kg		
Standard Package	LCD Camera, USB 2.0 Cable, Mouse, DC12V Power Adapter		
	1. Insert the mouse into the camera Type-A USB 2.0 port, conne to camera.	ct 12V power supply	
	<ol> <li>Turn on the power switch, when the camera is running, the LE</li> <li>Move the mouse to the top left corner of the screen to call up t</li> <li>including icon : Take Photo, Record Video, Preview, Measure, Second Video, Preview, Preview, Preview, Preview, Preview, Preview, Preview, Preview, Previe</li></ol>	he MAIN MENU,	
LISP Mouro Control	4. Move the mouse to the middle position at the bottom of the sci the QUICK MENU, including icon: Zoom In, Zoom Out, Up/Dow Mirror, Left/Right Mirror, Black/Whit Font, 2 Split, 4 Split		
USB Mouse Control Operation Manual	5. Click the MEASURE icon to pop up the measure window, which support over 20 kinds of measurement graphics.		
	6. Click the EDIT button and fill in the name to of new ruler to CA mouse to the corresponding standard scale in the image display standard length scale line. Then fill in the length column and click the calibration setting. If you want to add more ruler, just repeat a	window and draw a SAVE to complete	
	7.Click mm/PX to open or close the screen scale.		
	8. If the USB port is directly connected to the computer, the scree can be displayed synchronously (the USB cable must be connec before the device is powered on)		
A33.1009 L			
Adapter	CD Digital Biological Microscope Optional Accessories	Cata. No.	
	CD Digital Biological Microscope Optional Accessories 0.45x C-mount With Reduction		
•	0.45x C-mount With Reduction	A55.1002-45	
•	0.45x C-mount With Reduction Dark Field Condenser, N.A. 0.7~0.9, Dry	A55.1002-45 A5D.1006-D	
Dark Field	0.45x C-mount With Reduction	A55.1002-45	
Dark Field	0.45x C-mount With Reduction Dark Field Condenser, N.A. 0.7~0.9, Dry Dark Field Condenser, N.A. 1.25~1.35, Immersion Achromatic 100X with Cone Diaphram for Oil Dark Field Observation	A55.1002-45 A5D.1006-D A5D.1006-I	
Dark Field Objective	0.45x C-mount With Reduction Dark Field Condenser, N.A. 0.7~0.9, Dry Dark Field Condenser, N.A. 1.25~1.35, Immersion Achromatic 100X with Cone Diaphram for Oil Dark Field Observation Plan 100X with Iris Diaphram for Oil Dark Field Observation	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2	
Dark Field Objective	<ul> <li>0.45x C-mount With Reduction</li> <li>Dark Field Condenser, N.A. 0.7~0.9, Dry</li> <li>Dark Field Condenser, N.A. 1.25~1.35, Immersion</li> <li>Achromatic 100X with Cone Diaphram for Oil Dark Field</li> <li>Observation</li> <li>Plan 100X with Iris Diaphram for Oil Dark Field Observation</li> <li>Simple Polarizing Kit</li> </ul>	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1	
Dark Field Objective	0.45x C-mount With ReductionDark Field Condenser, N.A. 0.7~0.9, DryDark Field Condenser, N.A. 1.25~1.35, ImmersionAchromatic 100X with Cone Diaphram for Oil Dark FieldObservationPlan 100X with Iris Diaphram for Oil Dark Field ObservationSimple Polarizing KitSliding Phase Contrast Set	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2	
Dark Field Objective Polarizing	<ul> <li>0.45x C-mount With Reduction</li> <li>Dark Field Condenser, N.A. 0.7~0.9, Dry</li> <li>Dark Field Condenser, N.A. 1.25~1.35, Immersion</li> <li>Achromatic 100X with Cone Diaphram for Oil Dark Field</li> <li>Observation</li> <li>Plan 100X with Iris Diaphram for Oil Dark Field Observation</li> <li>Simple Polarizing Kit</li> </ul>	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2	
Dark Field Objective Polarizing	0.45x C-mount With Reduction Dark Field Condenser, N.A. 0.7~0.9, Dry Dark Field Condenser, N.A. 1.25~1.35, Immersion Achromatic 100X with Cone Diaphram for Oil Dark Field Observation Plan 100X with Iris Diaphram for Oil Dark Field Observation Simple Polarizing Kit Sliding Phase Contrast Set Sliding Phase Contrast Condenser Achromatic Phase Contrast Objective 10x,40x Centering Telescope	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2 A5P.1001	
Dark Field Objective Polarizing	0.45x C-mount With Reduction Dark Field Condenser, N.A. 0.7~0.9, Dry Dark Field Condenser, N.A. 1.25~1.35, Immersion Achromatic 100X with Cone Diaphram for Oil Dark Field Observation Plan 100X with Iris Diaphram for Oil Dark Field Observation Simple Polarizing Kit Sliding Phase Contrast Set Sliding Phase Contrast Condenser Achromatic Phase Contrast Objective 10x,40x Centering Telescope Green Filter	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2 A5P.1001	
Dark Field Objective Polarizing Phase Contrast Fluorescent	<ul> <li>0.45x C-mount With Reduction</li> <li>Dark Field Condenser, N.A. 0.7~0.9, Dry</li> <li>Dark Field Condenser, N.A. 1.25~1.35, Immersion</li> <li>Achromatic 100X with Cone Diaphram for Oil Dark Field</li> <li>Observation</li> <li>Plan 100X with Iris Diaphram for Oil Dark Field Observation</li> <li>Simple Polarizing Kit</li> <li>Sliding Phase Contrast Set</li> <li>Sliding Phase Contrast Condenser</li> <li>Achromatic Phase Contrast Objective 10x,40x</li> <li>Centering Telescope</li> <li>Green Filter</li> <li>EPI-Fluorescent Kit</li> <li>Power Supplier 220V/110V Interchangeable, Digital Display</li> <li>100WHBO Ultra Hi-Voltage Spherical Mercury Lamp</li> <li>Barrier To Resist Ultraviolet Light</li> <li>Fluorescence Free Oil</li> </ul>	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2 A5P.1001	
Dark Field Objective Polarizing Phase Contrast	<ul> <li>0.45x C-mount With Reduction</li> <li>Dark Field Condenser, N.A. 0.7~0.9, Dry</li> <li>Dark Field Condenser, N.A. 1.25~1.35, Immersion</li> <li>Achromatic 100X with Cone Diaphram for Oil Dark Field</li> <li>Observation</li> <li>Plan 100X with Iris Diaphram for Oil Dark Field Observation</li> <li>Simple Polarizing Kit</li> <li>Sliding Phase Contrast Set</li> <li>Sliding Phase Contrast Condenser</li> <li>Achromatic Phase Contrast Objective 10x,40x</li> <li>Centering Telescope</li> <li>Green Filter</li> <li>EPI-Fluorescent Kit</li> <li>Power Supplier 220V/110V Interchangeable, Digital Display</li> <li>100WHBO Ultra Hi-Voltage Spherical Mercury Lamp</li> <li>Barrier To Resist Ultraviolet Light</li> </ul>	A55.1002-45 A5D.1006-D A5D.1006-I A5D.1030-1 A5D.1030-2 A5P.1001 A5C.1002-C3	

#### A33.1019 9.7" LCD Digital Biological Microscope, 5.0M Android Pad





9.7" HD LCD Touch Screen Android Pad With Measuring Software
5.0M Digital Camera With TF Card, HDMI + USB Output
Classical 107BN Laboratory Biological Microscope
High Quality Optical System With Achromatic Objectives



HDMI and TF-CARD Interface

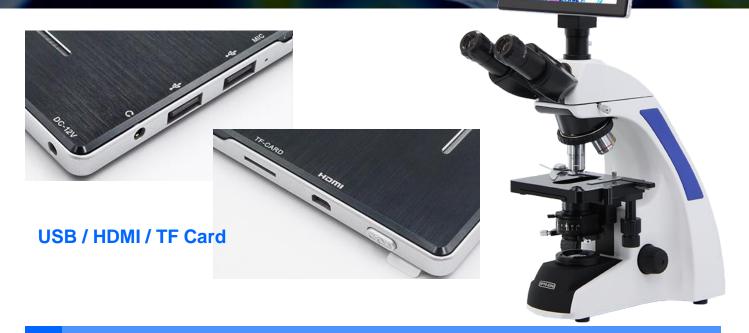
Mini USB2.0 & USB 2.0 Interface, IT Has Mike and Headphone Function

# **Product Specification**

	A33.1019 LCD Digital Biological Microscope		
Magnification	40x~1600x		
Head	Sliding Trinocular Black Head, 45° Inclined, 360° Rotatable, With Eyepiece	Adapter & 1.0x C-Mount	
Eveniece	Wide Field WF10x/18mm		
Eyepiece	Wide Field WF16x/11mm		
Nosepiece	Quadruple Nosepiece		
Objective	Achromatic 4x/0.10, 10x/0.25, 40xs/0.65, 100xs/1.25(Oil)		
Stage	Double Layer Mechanical Stage, 140*140mm, Mvoing Range 50*75mm		
Focusing	Low Position Coaxial Coarse & Fine Focusing. Fine Focusing Scale 0.002r Adjustment, With Up Limit	nm, With Tension	
Condenser	N.A.1.25 Abbe Condenser, Iris Diaphargm, With Filter Holder		
Filter	Blue, Yellow, Green		
Light Source	Plan-Concave Mirror		
-	Built-in Illumination 6V20W Halogen Lamp		
Screen Size	9.7"HD IPS Touch Screen With Backlight		
Camera	5.0M 1/2.5"CMOS Digital Camera		
Pixel Size	2.2umx2.2um		
Resolution	2048x1536 @15FPS		
Data Storage	TF Card or Built-in Memory		
Data Output	USB2.0, HDMI, TF Card		
Photo	5.0M .JPEG		
Video	1080p Video Record		
Cross Hair	Support		
	Android 5.1 System		
	90 Languages		
System	Support Mouse + Keyboard Control		
	Support WIFI		
	Support Bluetooth		
	S-Eye Software & Instruction Manual Installed		
	Mark: Point, Crosshair, Coordinate, Text		
	Length Measure: Straight Line Length, Broken Line Length, Curve Length,	Parallel Line Distance, Point	
	To Line Distance		
Function	Distance Between 2 Circle Centers: Radius Fixed Circle, Two-point Fixed Circle	Circle, Three-point Fixed	
	Geometric Measure: Line Segment Length, Radius Fixed Circle, Two-point Fixed Circle, Three-point Fixed Circle, Concentric Circle		
	Geometric Area Measure: Polygon, Square		
Power	DC 12V/2A Power Adaptor, AC 100~240V		
Size	Pad 238x182x12mm, Camera 40x39mm		
Package	Packing Box 10x24x29cm, 0.6Kg, 1 pc/Box		
	.1019 LCD Digital Biological Microscope Optional Accessories	Cata. No.	
Adapter	0.45x C-mount With Reduction	A55.1002-45	
•	Dark Field Condenser, N.A. 0.7~0.9, Dry	A5D.1006-D	
Dark Field	Dark Field Condenser, N.A. 1.25~1.35, Immersion	A5D.1006-I	
	Achromatic 100X with Cone Diaphram for Oil Dark Field Observation	A5D.1030-1	
Objective	Plan 100X with Iris Diaphram for Oil Dark Field Observation	A5D.1030-2	
Polarizing	Simple Polarizing Kit	A5P.1001	
	Sliding Phase Contrast Set		
	Sliding Phase Contrast Condenser		
Phase	Achromatic Phase Contrast Objective 10x,40x	A5C.1002-C3	
Contrast	Centering Telescope		
	Green Filter		
	EPI-Fluorescent Kit		
	Power Supplier 220V/110V Interchangeable, Digital Display	A5F.1001	
	100WHBO Ultra Hi-Voltage Spherical Mercury Lamp		
	Barrier To Resist Ultraviolet Light		
Fluorescent	Fluorescence Free Oil		
ridoresoent		A5F.1001-UV	
ridorescent	Fluorescent Objective 10x,25x,40x,100x Excitation Filter B/G	A5F.1001-UV	

### A33.1502 9.7" LCD Digital Microscope, 5.0M, Android Pad





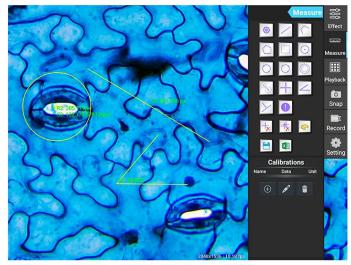
9.7" LCD Touch Screen Pad, With Android System + Measuring Software
High Eyepoint Wide Field Eyepiece WF10x/20mm Dia.30mm
Achromatic HC 4x,10x,40x100x Objective, Upgradeable To Infinity
Double Layer Mechanical Stage 143\*132mm, Upgradeable To 216x150mm
3W LED Kohler Illumination With Removable Light House For Easy Maintainence





#### 9.7" Android Pad + 5.0M Camera

Sharp Image | All-in-One | Photo & Video



# **Product Specification**

	A33.1502 9.7" LCD Digital Biological MicroscopeA
Head	Trinocular Head, 30° Inclined, Interpupillary Distance 48-75mm, Both Eyepiece Tube Diopter Adjustable
Eyepiece	WF10x/20mm, Diopter Adjustable, Dia. 30mm
Objective	High Contrast Chromatic Free 4x, 10x, 40x(S), 100x(Oil, S)
Focus Knob	Coaxial Coarse & Fine Focusing, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Focusing Range 24mm
Nosepiece	Quadruple, Backward With Click Stops
Stage	Double Layer Mechanical Stage 142x132mm, Graphite Surface, Moving Range 75x50mm
Condenser	Abbe Condenser N.A.1.25, Center Adjustable
Light Source	3W LED Brightness Adjustable
Adapter	C-Mount 1.0x
Package	53*32.5*53.5cm/11.5Kg, 1 Set/Carton
	9.7" LCD Pad Digital Camera (A59.3520)
LCD	9.7" HD IPS Touch Screen With Backlight
Camera	5.0M 1/2.5" CMOS Digital Camera
Resolution	2048x1536 @15FPS
Pixel	2.2umx2.2um
Data Storage	TF Card or Built-in Memory
Data Output	USB2.0, HDMI, TF Card
Photo	5.0M .JPEG
Video	1080p Video Record
	Android 5.1 System
	90 Languages
System	Support Mouse + Keyboard Control
	Support WIFI
	Support Bluetooth
	S-EyeSoftware & Instruction Manual Installed
	Mark:Point, Crosshair, Coordinate, Text
	Length Measure:Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point To Line Distance
	<b>Distance Between 2 Circle Centers:</b> Radius Fixed Circle, Two-point Fixed Circle, Three-point Fixed Circle
	<b>Geometric Measure:</b> Line Segment Length, Radius Fixed Circle, Two-point Fixed Circle, Three-point Fixed Circle, Concentric Circle
	Geometric Area Measure: Polygon, Square
Power	DC 12V/2A Power Adaptor, AC 100~240V
Size	Pad 238x182x12mm, Camera 40x39mm

## A31.0909 Digital Biological Microscope, 3.0M





3.0M CMOS Digital Camera, USB 2.0 Output Binocular Head, 30° Inclined, Diopter Adjustable +/-5° Eyepiece WF10x/18mm, Objective Achromatic 4x,10x,40x(S),100x(O,S) Double Layer Mechanical Stage, Size 132\*140mm, Moving Range 50\*76mm 3W LED High Brightness, Wide Voltage AC100~240V

	A31.0909 Biological Microscope	A31.0909	A31.0909-P
	3.0M CMOS Digital Camera, USB 2.0 Output	0	0
Head	Binocular Head, 30° Inclined, Diopter Adjustable +/-5°, Interpupillary Distance 50~75mm	0	0
Eyepiece	WF10x/18mm	0	0
Nosepiece	Backward, Quarduple Nosepiece	0	0
Objective	Achromatic 4x,10x,40x(S),100x(O,S)	0	
	Plan 4x,10x,40x(S),100x(O,S)		0
Working Stage	Double Layer Mechanical Stage, Size 132*140mm, Moving Range 50*76mm, Precision 0.1mm	0	0
Condenser	Abbe N.A.1.25, With Iris Diaphragm, Fixed But Center adjustable	0	0
Focusing	Low Position Designed, Coaxial Coarse & Fine Focusing, Coarse Focusing Range 25mm, Fine Focusing Scale 0.002mm, With Tension Adjustment, With Upper Safty Stop	0	0
Light Source	3W LED High Brightness	0	0
Power	Wide Voltage AC100~240V Input, DC 6V1A Output	0	0

#### A31.0911 Digital Biological Microscope, 4.0M, HDMI+USB





Aesthetic The double - layer mechanical stage of A12.0911 adopts line rail for overload protection at the end of x axis, and avoids



Digital Binocular Head, Built-in 4.0M 1/3" CMOS Camera, Output HDMI++MiniUSB+SD Card Infinity Plan Achromatic Objective 4x.10x.20.40x.100x On 5 Holes Nosepiece N.A.1.25 Kohler Illumination Condenser, With Iris Diagram, Center Adjustable LCD Screen On Stand Showing Color Temperature & Brightness Memory Function Dark Field, Polarizing, Phase Contrast Fluorescent Function Upgradable

	A31.0911 Digital Biological Microscope
Optical System	Infinity Chromatic Aberration Correction System
Head	Digital Binocular Head, Built-in 4.0M 1/3"CMOS Camera, Output HDMI+MiniUSB+SD Card, Built-in 16G Memeory, Interpupillary Distance 50-75mm, ±5 Diopter Adjustable, Light Split 8:2
Eyepiece	WF10x/20mm Wide Field Eyepiece
Nosepiece	5 Holes Nosepiece
Objective	Infinity Plan Achromatic 4x10x20x40x100x
Working Stage	Double Layer Mechanical Stage 150mm×162mm
Condenser	N.A.1.25
Light Source	3W LED, With LCD Screen, Adjustable Color Temperature (3000K-5600K), Brightness Memory Function
Power	Wide Range 100V -240V

### A31.0921 WIFI Digital Biological Microscope, 2.0M, Android





Monocular Head Built-in WIFI Camera 2.0MP App Software For Android Achromatic 4x/0.10, 10x/0.25, 40xs/0.65 N.A.0.65 Condenser With Iris Diaphragm LED Illumination 3 Bulbs Brightness Adjustable



	A31.0921-2M
Magnification	40x~400x
	Monocular Head, 30° Inclined
Head	Built-in WIFI camera, 2MP. With Pad holder
Eyepiece	PL10X/18mm
Nosepiece	Triple Nosepiece
Objective	Achromatic 4x/0.10, 10x/0.25, 40xs/0.65
Stage	Metal Plain Stage 110*120mm, With Slide Clip
Focusing	Separate Coarse & Fine Focusing. Coarse Focusing Range 8.7mm, Fine Focusing Range 1.2mm
Condenser	NA0.65 condenser and iris diaphragm
Light Source	LED Illumination (3 bulbs)

#### A31.0923 WIFI Digital Biological Microscope, 2.0M, Android







A31.0923-M2M

Binocular Head Built-in WIFI Camera 2.0MP App Software For Android Double Layers Mechanical Stage 115x125mm N.A.1.25 Abbe Condenser Coaxial Coarse & Fine Focus, With Coarse Adjustment Stop Screw And Tightness Adjustment, Focusing Range 13mm With Clip Stage 0.2W LED 5700-6500K Intensity Adjustable

	A31.0923	M2M	B2M
	Monocular Head 30° Inclined, Built-in WIFI Camera, 2MP. With Pad Holder	•	
Head	Binocular Head 30° Inclined, 360° Rotatable, Inter-pupillary Distance 50~75mm, Built-in WIFI Camera, 2MP. With Pad Holder		•
Eyepiece	Plan Eyepiece 10x/18mm With Eye Guard	•	•
Nosepiece	Built-in Quadruple Nosepiece	٠	•
	Achromatic Objectives 4x/0.10(Black)	٠	•
Objective	Achromatic Objectives 10x/0.25(Black)	٠	•
Objective	Achromatic Objectives 40xS/0.65(Black)	٠	•
	Achromatic Objectives 100xS/1.25(Oil)(Black)	•	•
Stage	115x125mm Double Layers Mechanical Stage, With N.A.1.25 Abbe Condenser, With Iris Diaphragm & Filter Holder, Moving Range 22mm-71mm	•	•
Focusing	Coaxial Coarse & Fine Focus, With Coarse Adjustment Stop Screw And Tightness Adjustment, Focusing Range 13mm With Clip Stage, (7mm With Mechnical Stage), Fine Precision 0.004mm	•	•
Light	0.2W LED(5700-6500K), Intensity Adjustable	•	•
Power	Adapted Power Supply 100-240V/12V 3.3A	٠	•

#### A31.0925 WIFI Digital Biological Microscope, 5.0M, Win, iMac, iOS, Android





Binocular Head Built-in WIFI Camera 5.0MP Software For Win, iMac, App For IOS, Android Plan Achromatic 4x,10x,40x(S),100x(O,S) Double Layer Mechanical Stage 132x140mm Abbe N.A.1.25, With Iris Diaphragm, Fixed But Center Adjustable

	A31.0925-5M	
Head	Binocular Head, 30° Inclined, Diopter Adjustable +/-5°, Interpapillary Distance 50~75mm, Built- in WIFI Camera, 5MP. With Pad Holder	
Objective	Plan Achromatic 4x,10x,40x(S),100x(O,S)	
Eyepiece	PL 10x/18mm	
Nosepiece	Backward, Quadruple Nosepiece	
Working Stage	Double Layer Mechanical Stage, Size 132*140mm, Moving Range 50*76mm, Precision 0.1mm	
Condenser	Abbe N.A.1.25, With Iris Diaphragm, Fixed But Center adjustable	
Focusing	Low Position Designed, Coaxial Coarse & Fine Focusing, Coarse Focusing Range 25mm, Fine Focusing Scale 0.002mm, With Tension Adjustment, With Upper Safety Stop	
Light Source	3W LED High Brightness	

### A31.0927 WIFI Digital Biological Microscope, 5.0M, 12M, Win, iMac, iOS, Android





Binocular Head, Built-in WIFI Camera, 5MP/12MP Software For Win, iMac, App For iOS, Android Infinity Color Corrected Optical System N.A.1.25 Compound Eye Illumination Condenser Group 150mmx140mm Mechanical Stage, Moving Range:76mm-50mm, Precision 0.1mm (Triangular Guide Rail)

	A31.0927	5M	12M
Head	Binocular Head, Built-in WIFI Camera, 5MP.	•	
Tieau	Binocular Head, Built-in WIFI Camera, 12MP.		•
Optical system	Infinity Color Corrected Optical System	•	•
Viewing Head	30° Inclined, Gemel Binocular Head, Interpupillary Distance 47mm-75mm.	•	
Eyepiece	PL10x/20mm	•	•
Nosepiece	Reversed Quadruple Nosepiece	•	•
	Plan Achromatic Objective 4x/0.10, WD=11.9mm	•	•
<b>.</b>	Plan Achromatic Objective 10x/0.25, WD=12.1mm	•	•
Objective	Plan Achromatic Objective 40x/0.65, WD=0.36mm	•	•
	Plan Achromatic Objective 100x/1.25, WD=0.18mm	•	•
Focusing Mechanism	Low Position Coaxial Focusing Mechanism, Coarse Range: 25mm, Fine Precision: 0.002mm, With Tension Adjustment And Upper Limit	•	•
Working Stage	150mmx140mm Mechanical Stage, Moving Range 76mm-50mm, Precision 0.1mm		•
Illumination	N.A.1.25 Compound Eye Illumination Condenser Group (With Plug-in Phase Contrast And Dark Field Accessories' Interface), Condenser Preset Center, Adaptive 100V-240V Switching Power Supply, Single High Brightness 3W LED Light Intensity Can Be Continuously Adjusted	•	•

#### A31.1006 Digital Microscope, 1.3M







1.3M USB2.0 Built-in Digital Camera Monocular & Binocular Head Total Magnification 40x-1000x With Achromatic Optical System Double Layers Mechanical Stage115×125mm/70×20mm With Software For Measurment, Support Win7, Win10 1W Powerful LED Illumination, Brightness Adjustable

Items	A31.1006 Digital Biologcial Microscope	Α	В		
	Monocular head, Inclined at 45°, 360°rotatable	•			
Head	Binocular head, Inclined at 45°, 360°rotatable		•		
Eyepiece	WF10x/18				
	Achromatic 4x				
	Achromatic 10x				
Objective	Achromatic 40x				
	Achromatic 100x				
Nosepiece	Quadruple Nosepiece				
Stage	Double Layers Mechanical Stage115×125mm/70×20mm				
Condenser	ser Abbe N.A.=1.25 with iris diaphragm(Φ2-Φ28mm)and frosted filter				
	Valid Pixel 1280×1024(1.3M Pixel)				
	Output Mode USB2.0				
Camera System	Operation System WINDOWS 2000/XP/VISTA 32 Bit or 64 Bit				
	Software Scopelmage 9.0				
Illumination 1W Powerful LED Illumination, brightness adjustable					

### A31.1007 Digital Microscope





Sliding Binocular Head, Inclined at 45° inclined, Interpupillary 55-75mm

1.3M/2.0M USB2.0 Built-in Digital Camera Binocular Head Total Magnification 40x-1000x With Achromatic Optical System Double Layers Mechanical Stage140×140mm/75×50mm With Software For Measurment, Support Win7, Win10 1W Powerful LED Illumination, Brightness Adjustable

A31.1007 Dig	ital Biological Microscope	1.3M	3.0M		
	Sliding Binocular Head, Inclined	at 45° inclined, Interpupillary 55-7	5mm		
	Digital Camera 1.3M Pixlels,				
	1280x1024				
	Digital Camera 3.0M Pixlels,		•		
Head	2048x1536				
	USB 2.0 Output				
	Operation System: Windows 200	0/XP/Vista			
	Software : ScopeImage Plus				
	Range of Viewing Field >75%				
Eyepiece	WF10x/18				
Nosepiece	Forward Quadruple Nosepiece				
	Achromatic 4x				
Objective	Achromatic 10x				
Objective	Achromatic 40x				
	Achromatic 100x				
Stage	Double Layers Mechanical Stage				
Condenser	Abbe N.A.=1.20 with Iris Diaphra	-			
Focusing	Coaxial Coarse & Fine Focus Adjustment, Moving Range:28mm, Fine Division 0.002mm				
Light Source	Halogen Lamp 6V/20W, with brightness adjustable, 110V/220V				
	Optional Accessories				
Eyepiece	P16x/11	A51.1002-16			
Phase Contrast Kit		A5C.1009			
Dark Field		A5D.1014			
Polarization	A5P.1007				

#### A31.5121 Digital Biological Microscope, 5.0M





M5.0M Digital Camera Built-in Monocular Or Trinocular Head With Totol Magnification 40x-1000x Achromatic Optical System Double Layer Mechancial Stage 115x125mm With Abbe N.A.1.25 Condenser Coaxial Coarse & Fine Focusing Knob LED Light Source Brightness Adjustable With 10 Prepared Slides, With Experiment Kit, Pack In Hand Carry Case+Carton

#### **Specification**

	A31.5121 Digital Biological Microscope, 5.0M	-M	-т
	Teaching Head, 45°+90° Inclined, 360° Rotatable	0	
Head	Binocular Head, 30° Inclined, 360° Rotatable		
	Trinocular Head, 30° Inclined, 360° Rotatable		0
Digital Camera	5.0M CMOS Digital Camera, With 0.3x C-Mount		
Output	USB 2.0, Output to PC or Mobile Phone		
Software	CD With Measuring Software Strange View, Support Win/iMac Computer		
Language	Support Chinese, English, Russia, Ukrian		
Eyepiece	WF10x, WF16x		
Nosepiece	Quadruple Nosepiece, Ball Bearing Inner Locating		
Objective	Achromatic 4x,10x,40x(s), 100x(s, oil)		
Working Stage	Double Layer Mechanical Stage 115*125mm		
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Range 20mm		
Condenser	Abbe Condenser N.A.1.25, With Iris Diaphragm Filter		
Light Source	LED, Brightness Adjustable		
Accessory	Prepared Slide 10pcs in Box, Experiment Kit, Mobile Phone Connector		
Packing	Hand Carry Box + Master Carton		

### A33.0913 9" LCD Digital Biological Microscope, 5.0M HDMI+USB









9" HD LCD Screen With Measure, Photo, Video Function
5.0M HDMI Mouse Control+ USB2.0 Digital Camera With TF Card
Double Layers Mechanical Stage 115x125mm Coaxial Course & Fine Focusing
LED Light Source Brightness Adjustable, With Built-in Rechargeable Battery Module & LED Indicator
Power By USB Adapter or USB Bank, Computer USB Port



Single Layer Working Stage 110x120mm With Quick Slide Clip, Double Layer Mechanical Stage 115x125mm Optional



LED Light Source Brightness Adjustable, With Built-in Rechargeable Battery Module & LED Indicator

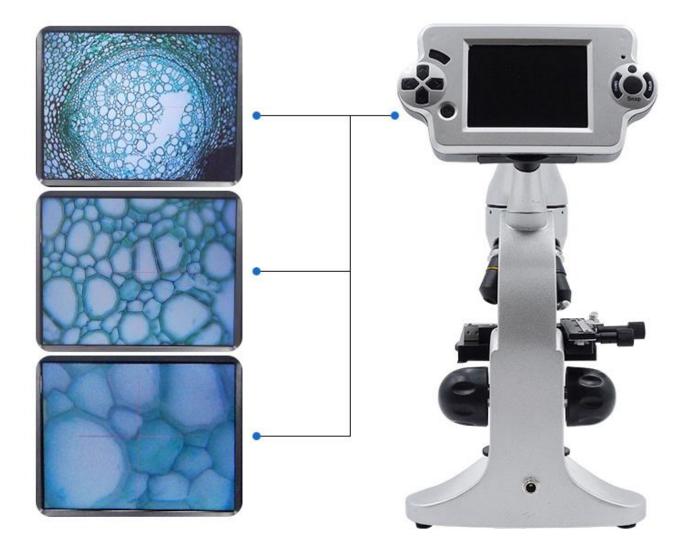
# **Product Specification**

	A33.0913 Biological Microscope Specification
	Trinocular Head 30° linclined, 360° Rotatable, Inter-pupillary Distance 50~75mm,
Head	Light Splitting Ratio Fixed 50:50
Eyepiece	WF Plan Eyepiece 10x/18mm With Eye Guard
Nosepiece	Reversed Quadruple Nosepiece
	Achromatic Objectives 4x/0.10(Black)
	Achromatic Objectives 10x/0.25(Black)
Objective	Achromatic Objectives 40xS/0.65(Black)
	Achromatic Objectives 100xS/1.25(Oil)(Black)
	115x125mm Double Layers Mechanical Stage, With N.A.1.25 Abbe Condenser,
Working Stage	With Iris Diaphragm & Filter Holder, Moving Range 22mm-71mm
	Coaxial Coarse & Fine Focus, With Coarse Adjustment Stop Screw And
Focusing	Tightness Adjustment, Focusing Range 13mm With Clip Stage, (7mm With
rocusing	
Light	Mechnical Stage), Precision 0.002mm
Light	0.2W LED Center Presetting, Intensity Adjustable
Power	External Wide Voltage AC Adapter Wide Range 100V~240V, Power By 5V1A DC
A de rete re	Input or USB Charge, Without Battery.
Adapter	C-Mount 0.5x Focus Adjustable
Other	M4 Allen Key Focus Adjustable
	Package by Foam And Paper Master Carton
	A33.0913 LCD Digital Camera Specification
Sensor	1/2.8"Sony Star Light Level CMOS Sensor
Resolution	5.0M CMOS
LCD Screen	9"LCD, Resolution 1024x600 High Clearance Screen
Output	USB 2.0 Type-A, TF Card
Pixel Size	2.0x2.0um
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC
	Photo, Video, Meaure, Compare
	Support <b>USB Mouse Control</b> To Capture Photo, Video, Measure, Setting
	USB 2.0 To Win 7, Win10 System, Software S-Eye Included
Function	Brightness, Contrast, Exposure, White Balance Adjustable
	10x Digital Zoom, 4 Split/ 2 Split Windows Image Compae
	Storage To TF Card
	Cross Line With Scale, Calibrated
	Net Line 8 Kinds, Width & Color Adjustable
Size / Weight	Product Size 225x52x175mm, Net Weight 0.7Kg
Standard Package	LCD Camera, USB 2.0 Cable, Mouse, DC12V Power Adapter
	1. Insert the mouse into the camera Type-A USB 2.0 port, connect 12V power
	supply to camera.
	2. Turn on the power switch, when the camera is running, the LED light turns blue
	3. Move the mouse to the top left corner of the screen to call up the MAIN MENU,
	including icon : Take Photo, Record Video, Preview, Measure, Setting.
	4. Move the mouse to the middle position at the bottom of the screen to call up
	the <b>QUICK MENU</b> , including icon: Zoom In, Zoom Out, Up/Dow Mirror, Left/Right
	Mirror, Black/White, HDR, Freeze, Net, Font, 2 Split, 4 Split
USB Mouse Control	5. Click the <b>MEASURE</b> icon to pop up the measure window, which support over
	20 kinds of measurement graphics.
Operation Manual	C Olicie the EDIT button and fill in the name to of non-mulante CALIDDATE Maria
Operation Manual	6. Click the EDIT button and fill in the name to of new ruler to <b>CALIBRATE</b> . Move
Operation Manual	the mouse to the corresponding standard scale in the image display window and
Operation Manual	the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to
Operation Manual	the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above
Operation Manual	the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps.
Operation Manual	the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps. 7.Click mm/PX to open or close the screen scale.
Operation Manual	<ul> <li>the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps.</li> <li>7.Click mm/PX to open or close the screen scale.</li> <li>8. If the USB port is directly connected to the computer, the screen and the</li> </ul>
Operation Manual	the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps. 7.Click mm/PX to open or close the screen scale.

## A33.1501 3.5" LCD Digital Microscope, 2.0M



3.5" LCD Screen + 2.0M Digital Camera All-in-One Head Optical Magnification 40x-640x, Digital Magnification 24x Eyepiece WF10x, 16x, Objective 4x, 10x, 40x(S) Internal Memory 128MB + SD Card Slot + USB2.0 Output Cordless Batteries With External Adapter Included



10

# **Product Specification**



	A33.1501 3.5" LCD Digital Microscope, 2.0M	
Head	Monocular Head, 45° Inclined	
Eyepiece	WF10x,16x	
Objectives	4x,10x,40xs	
Focusing	Coarse Focusing Knob, Focusing Range: 20mm	
Stage	Single Layer W. Vernier Scale Stage, Size: 90x95mm, Moving Range 30x60mm	
Condenser	Single LensCondenser,6 Holes Disc Diaphragm	
Light Source	Up & Bottom LED Light, Both Brightness Adjustable	
Power	Cordless Batteries (3xAAA Batteries NOT Included)	
rowei	Adapter Included (110V/220V Optional)	
Screen	3.5"LCD	
Memory	Internal Memory 128MB	
Slot	SD Card Slot, 2G SD Card Included	
Output	USB2.0 Output	
TV Output	NTSC,PAL	
COMS Camera	2.0M 1600*1200	
	12M(4023*3024)	
	8M(3264*2448)	
	5M(2560*1290)	
LCD Resolution	3M(2048*1536)	
	2M(1600*1200)	
	1.3(1280*1024)	
	VGA(640*480)	
Quality	Fine,Standard Economy	
EV	You Can Select EV From-2.0+2.0	
White Balance	Auto For The Default	
ISO	Auto For The Default	
Color	Standard, Vivid, Sepia, Monochrome	
Saturation	Normal,High,Low	
Sharpness	Normal,Normal,Soft	
Time Stamp	Off, Date Only(Can Show The Date On The Picture Or Video), Date&Time(Can Show The	
	Date And Time On The Picture Or Video)	
Language	There Are 9 Kinds Of Language. The Default Is English.	

Standard Accessories		
Packing Box	Packed In Suitcase Packing Box	
	Plastic Microtom 1 pc	
	Hatching Box 1 pc	
	Tweezer 1pc	
Experimentation	Sea Salt 1 Bottle	
Appliance	Yeast 1 Bottle	
	Worm Eggs 1 Bottle	
	Glue 1 Bottle	
	Blank Slides 5 pcs, Prepared Slides 5 pcs, In 1 Box	

#### A33.1511 4.3" LCD Digital Microscope, 2.0M













Research





Aquaculture

Beauty mites Children's Science

Pet Hospital

School

All-in-On 4.3" LCD Screen 8.0M Resolution, With Built-in HD Digital Camera 2.0M
High Quality Achromatic Objective 10x, 20x, 40x On Triple Nosepiece
Plain Stage with Vernial Scale With Disc Diaphragm Condenser
Dual Light Up/Bottom LED, Brightness Adjustable For Watching Prepared Slide Or Small Objective
Powered By USB Adapter or By USB Port of Computer, USB Bank For Outdoor Work

A33.151	1, A33.1512, A33.1513 LCD Digital Microscope, 2.0M	A33.1511	A33.1512	A33.1513
	Total Magnification 70x~280x on 4.3" LCD Screen	•		
Magnification	Total Magnification 130x~520x on 7" LCD Screen •		•	•
	4.3" LCD Screen, 3 Buttons, LCD Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 95*55mm, Support 10 Languages.	•		
LCD	7.0" LCD Screen, 7 Buttons LCD, Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 155*85mm, Support 10 Languages. Simple Measure Function, By Cross Scale Line With Setted Scale For 4x,10x,40x.		•	•
Camera	HD Digital Camera 2.0M All-in-One Design	•	•	•

Objective	Achromatic 10x/0.25, 20x/0.4x, 40x/0.65(Spring)	•	•	•
Nosepiece	Outward Triple With Clip Stop	•	•	•
	Single Layer Working Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm	•		
	Double Layers Mechanical Stage 105x105mm, Moving Range 50x30mm		•	
Working Stage	Single Layer Heating Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm			
	1. The Heating Stage Will Auto Heated to 38° When Power Switch On.			•
	<ol> <li>Push +/- To Set The Temperature From 15°to 50°, It will Reach Set Temperature Slowly.</li> <li>Real Time Temperature Is Shown On the Window</li> </ol>			
Condonoor	Single Lens Condenser	•		•
Condenser	Abbe Condenser With Iris Diaphragm		•	
Focusing	Coaxial Coarse & Fine Focusing Knob, Focusing Range 16mm	•	•	•
Illumination	Dual Light Up/Bottom LED, Brightness Adjustable	٠	•	•
Power	Powered By USB 5V Charger, Input AC100V-240V 50/60HZ, or By USB Port of Computer, USB Bank For Outdoor Work	•	•	
	Powered By USB 12V5A Charger			•
Accessory	Full Set Accessory Kit,	•	•	•
Packing	With Carry Box, Packed In Master Carton, 25*31*43cm/3Kgs	•	•	•



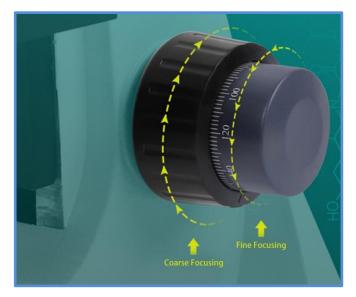
### A33.1512 7" LCD Digital Microscope, 2.0M







All-in-On 7" LCD Screen With Built-in HD Digital Camera 2.0M
High Quality Achromatic Objective 10x, 20x, 40x On Triple Nosepiece
Double Layers Mechanical Stage With Abbe Condenser And Iris Diaphragm
Dual Light Up/Bottom LED, Brightness Adjustable For Watching Prepared Slide Or Small Object
Powered By USB Adapter or By USB Port of Computer, USB Bank For Outdoor Work



Elegent Smooth Design, Heavy Metal Base Supply Steady Stand For Firm View.



Vernial Scale Stage, With Single Lens Condenser

# **Product Specification**

A33.15	511, A33.1512, A33.1513 LCD Digital Microscope, 2.0M	A33.151 1	A33.151 2	A33.151 3
	Total Magnification 70x~280x on 4.3" LCD Screen	•		
Magnification	Total Magnification 130x~520x on 7" LCD Screen		•	•
	4.3" LCD Screen, 3 Buttons, LCD Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 95*55mm, Support 10 Languages.	•		
LCD	7.0" LCD Screen, 7 Buttons LCD, Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 155*85mm, Support 10 Languages. Simple Measure Function, By Cross Scale Line With Setted Scale For 4x,10x,40x.		•	•
Camera	HD Digital Camera 2.0M All-in-One Design			
Objective	Achromatic 10x/0.25, 20x/0.4x, 40x/0.65(Spring)	•	•	•
Nosepiece	Outward Triple With Clip Stop			
	Single Layer Working Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm	•		
	Double Layers Mechanical Stage 105x105mm, Moving Range 50x30mm		•	
Working Stage	Single Layer Heating Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm			
	<ol> <li>The Heating Stage Will Auto Heated to 38° When Power Switch On.</li> <li>Push +/- To Set The Temperature From 15°to 50°, It will Reach Set Temperature Slowly.</li> <li>Real Time Temperature Is Shown On the Window</li> </ol>			•
Condenser	Single Lens Condenser			
	Abbe Condenser With Iris Diaphragm			
Focusing	Coaxial Coarse & Fine Focusing Knob, Focusing Range 16mm			
Illumination	Dual Light Up/Bottom LED, Brightness Adjustable	•		•
Power	Powered By USB 5V Charger, Input AC100V-240V 50/60HZ, or By USB Port of Computer, USB Bank For Outdoor Work	•	•	
-	Powered By USB 12V5A Charger			•
Accessory	Full Set Accessory Kit,	•		
Packing	With Carry Box, Packed In Master Carton, 25*31*43cm/3Kgs			



14cm









Pet Hospital

School







Aquaculture

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### A33.1513 7" LCD Digital Heating Stage Microscope, 2.0M







All-in-On 7" LCD Screen With Built-in HD Digital Camera 2.0M
High Quality Achromatic Objective 10x, 20x, 40x On Triple Nosepiece
Heating Stage 105x105/50x30mm, Temperature Control 15~50°
Dual Light Up/Bottom LED, Brightness Adjustable For Watching Prepared Slide Or Small Object
Powered By USB Adapter or By USB Port of Computer, USB Bank For Outdoor Work



LCD Screen 45° Tiltable, Ergonomic Design To Meet Observations From Different Directions Easily.



Push +/- To Set The Temperature From 15°to 50°, It will Reach Set Temperature Slowly.

# **Product Specification**

A33.15	511, A33.1512, A33.1513 LCD Digital Microscope, 2.0M	A33.151 1	A33.151 2	A33.151 3	
	Total Magnification 70x~280x on 4.3" LCD Screen	•			
Magnification	Total Magnification 130x~520x on 7" LCD Screen		•	•	
	4.3" LCD Screen, 3 Buttons, LCD Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 95*55mm, Support 10 Languages.	•			
LCD	7.0" LCD Screen, 7 Buttons LCD, Menu Support Brightness/Contrast/Color Adjust, Switch Between 16:9/4:3 Modes, Viewing Area 155*85mm, Support 10 Languages. Simple Measure Function, By Cross Scale Line With Setted Scale For 4x,10x,40x.		•	•	
Camera	HD Digital Camera 2.0M All-in-One Design				
Objective	Achromatic 10x/0.25, 20x/0.4x, 40x/0.65(Spring)	•	•	•	
Nosepiece	Outward Triple With Clip Stop				
	Single Layer Working Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm	•			
	Double Layers Mechanical Stage 105x105mm, Moving Range 50x30mm		•		
Working Stage	Single Layer Heating Stage 105x105mm, With Vernial Scale Ruler Moving Range 50x30mm				
	<ol> <li>The Heating Stage Will Auto Heated to 38° When Power Switch On.</li> <li>Push +/- To Set The Temperature From 15°to 50°, It will Reach Set Temperature Slowly.</li> <li>Real Time Temperature Is Shown On the Window</li> </ol>			•	
Condenser	Single Lens Condenser				
<b>F</b>	Abbe Condenser With Iris Diaphragm		•		
Focusing	Coaxial Coarse & Fine Focusing Knob, Focusing Range 16mm	•	•	•	
Illumination	Dual Light Up/Bottom LED, Brightness Adjustable				
Power	Powered By USB 5V Charger, Input AC100V-240V 50/60HZ, or By USB Port of Computer, USB Bank For Outdoor Work	•	•		
	Powered By USB 12V5A Charger				
Accessory	Full Set Accessory Kit,				
Packing	With Carry Box, Packed In Master Carton, 25*31*43cm/3Kgs				



14cm

. 18cm







School







Aquaculture

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### A33.5001 3.5"LCD Digital Microscope, 500x,5.0M





5.0 Mega Pixels True Resolution, Max 12.0M Still Capture Photo
3.5" LCD Screen Real Time Sharp & Clear Image
Total Magnification 20x To 200x, 500x
Frame Rate Max 30 Fps, With Measurement Software
Rechargeable Lithium Battery (Recharged By Adaptor Or USB)

A33.5001 3.5'LCD Digital Microscope, 500x,5.0M		
Image Sensor:	5 Mega Pixels (True Resolution)	
LCD Panel	3.5inches	
Still Capture Resolution	12M, 9M, 5M, 3M, 1.3M, VGA	
Video Capture Resolution	12M, 9M, 5M, 3M, 1.3M, VGA	
Focus Range	Manual Focus From 10mm To 50mm	
Frame Rate	Max 30f/s Under 600 Lus Brightness	
Magnification Ratio	20x To 200x, 500x	
TV Output	Available (To Any Monitor With TV In)	
Card Slot	Support MicroSD Card Slot Up To 32GB SDHC	
Light Source	8 LED (Adjustable By Control Wheel)	
Battery	Rechargeable Lithium Battery (Recharged By Adaptor Or USB)	
Measurement	By Software (Portable Caputure With OSD Language: English, German, Spanish, French, Russian)	
OSD Language	English, German, Spanish, French, Russian	
Bundle Software	MicroCapture With measurement	
Product Size	L149mm*W104mm*H227mm	
Weight	1100g	
Certificates	With CE, FCC Approval, RoHS Compliance	
Warranty	1 year	

### A33.5006 4.3" LCD Digital Microscope, 8.0M, 600x



#### Circuit board and hair



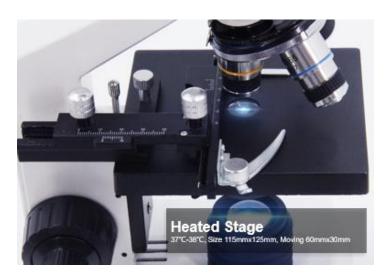
Max 8.0M Still Capture Resolution 4.3" LCD Screen With Focus Knob, Menu, Video & Photo Knob Magnification 600x, Data Output To Micro SD Card Or VGA Powered By DC 5V1A Adapter With Rechargeable Batteries Measure Software For Windows 7/8/10, Mac, Android

A33.5006 4.3-inch LCD Inspection Microscope Specification				
Magnification Ratio	600x			
Still Capture Resolution	8M, 5M, 3M, 1.3M, VGA			
Focus Range	Manual Focus From 5mm To 80mm			
Frame Rate	Max 30f/s Under 600 Lus Brightness			
Video Format	AVI			
Photo Format	JPEG			
Light Source	LEDs (Brightness Adjustable)			
Battery	Built-in Li-ion Battery			
DC Input	5V/1A			
TV-out	To Any Monitor With TV-in			
Storage	Micro-SD Card			
Bundle Software	Portable Capture Plus With Measurement			
Operation System For Bundle Software	Windows 7/8/10 Mac OS X 10.12 Or Above Android Smartphone/Tablet			
Product Size	116mm (L) x 95mm (W)			
Weight	Microscope-220g; Stand-220g			
Package Contents	Microscope Observation Stand Software CD USB Cable TV Cable Micro-SD Card (1GB) User's Manual			

#### A33.5100 7" LCD Digital Heating Stage Biological Microscope

OPTO-EDU







7" LCD Monitor + Digital Camera All-in-One For Easy Use Heating Stage Temperature Adjustable Range 30°~50° For Blood, Sperm View Total Optical Magnification 40x~640x, Digital Magnification 200x~2000x On Screen Coaxial Coarse & Fine Focusing Knob, Focus Range 20mm Transmit Light Source LED Brightness Powered By 12V DC Adapter



# **Specification & Packing**

A33.5100 7" LCD Heating Stage Biological Microscope				
LCD & Digital Camera				
LCD	1/2.75" CMOS			
Sensor	1/2.75" CMOS			
Resolution	2.0M 1920x1080p, With 0.3x C-Mount			
Pixel Size	2.8x2.8um			
Frame Rate	30 fps			
Output	USB 2.0, Output to LCD, PC or Mobile Phone			
Power	DC5V/2A, Power Port 3.5/1.35 DC			
Storage	Micro SD Card Slot, Support Class 10 Max 32G			
	One Key Switch Image From Main Camera & Hand-held Camera			
	One Key Take Photo, Video, Record, Save to SD Card			
	Set Color, Contrast, White Balance Auto/Manual Adjust			
	Set Photo/ Video Resolution Adjust, Mic On/Off to Record Voice With Video			
LCD Menu	Set Date, Time			
	Choose Language: Chinese, Tranditional Chinese, English, Japanese, France,			
	Germany, Korea, Russia, Italy, Portuguese, Spanish, Arabic			
	Playback Photo, Video			
	CD With Measuring Software Strange View, Support Win/iMac Computer, Support			
PC Software	Language Chinese, English, Russia, Ukrian			
	Microscope			
Head	Teaching Head, 45°+90° Inclined, 360° Rotatable			
Eyepiece	WF10x, WF16x			
Nosepiece	Triple Nosepiece, Ball Bearing Inner Locating			
Objective	Achromatic 4x,10x,40x(s)			
Working Stage	Heated Stage 37°C-38°C, Size 115mmx125mm, Moving 60mmx30mm			
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Range 20mm			
Condenser	Abbe Condenser With Iris Diaphragm			
Light Source	LED, Brightness Adjustable, Powered By 5V DC Adapter			
	S Key:			
Heating Set	Long Press: On/Off			
	Short Press: Set Temp.			
Accessory	Prepared Slide 10pcs in Box,			
	Experiment Kit,			
	Mobile Phone Connector			
	Power Adapter			
	Power Cord			
	USB Cable Software CD			
Dooking				
Packing	Aluminium Box + Master Carton			







#### A33.5102 7" LCD Digital Heating Stage Biological Microscope





Dual Optical System: 7" LCD Digital Camera + USB Portable Digital Microscope Totol Magnification 40x-640x Achromatic Optical System Double Layer Mechancial Stage 115x125mm With Disc Condenser Coarse & Fine Focusing Knob With Insert LED Light Source Brightness Adjustable With 10 Prepared Slides, With Experiment Kit, Pack In Hand Carry Case+Carton SOMO

#### **Specification**

A33.5102 7" LCD Biological Digital Microscope, 2.0M			
LCD Screen	7" IPS Screen, With Touch Button To Take Photo & Video, 2.0M, 30fps		
Head	Mono Straight Head		
Eyepiece	WF10x, WF16x		
Nosepiece	Triple		
Objective	Achromatic 4x10x40x		
Working Stage	Mechanical Stage		
Focusing	Coarse & Fine Focusing		
Illumination	Insert LED		
TF Card Output	Support Max 32G, To Take Photo & Video		
USB Output	To Win/Mac, With Professional StrangeView Measuring Software		
Power Supply	DC Adapter, Can Be Powered By USB Power Bank For Outdoor Use		
Package	Color Box + Foam, 1 pc/1 Box, With Software Disc, DC Adapter, Instruction Manual		

#### A33.5121 7" LCD Biological + USB Portable Dual Lens Digital Microscope, 2.0M







Dual Optical System: 7"/9" LCD Digital Camera + USB Portable Digital Microscope Totol Magnification 40x-1000x Achromatic Optical System Double Layer Mechancial Stage 115x125mm With Abbe N.A.1.25 Condenser Coaxial Coarse & Fine Focusing Knob LED Light Source Brightness Adjustable With 10 Prepared Slides, With Experiment Kit, Pack In Hand Carry Case+Carton



	A33.5121 9" LCD Biological + USB Portable Dual Lens Digital Microscope, 5.0M	-M	-МН	-т	-тн	
Head	Teaching Head, 45°+90° Inclined, 360° Rotatable	0	0			
	Binocular Head, 30° Inclined, 360° Rotatable					
	Trinocular Head, 30° Inclined, 360° Rotatable			0	0	
LCD Camera	7" IPS LCD Screen Resolution 800x480					
Sensor	1/2.75" CMOS					
Resolution	2.0M 1920x1080p, With 0.3x C-Mount					
Pixel Size	2.8x2.8um					
Frame Rate	30 fps					
Output	USB 2.0, Output to LCD, PC or Mobile Phone					
Power	DC5V/2A, Power Port 3.5/1.35 DC					
Storage	Micro SD Card Slot, Support Class 10 Max 32G					
	One Key Switch Image From Main Camera & Hand-held Camera					
	One Key Take Photo, Video, Record, Save to SD Card					
	Set Color, Contrast, White Balance Auto/Manual Adjust					
LCD Menu	Set Photo/ Video Resolution Adjust, Mic On/Off to Record Voice With Video					
	Set Date, Time					
	Choose Language: Chinese, Tranditional Chinese, English, Japanese, France, Germany, Korea, Russia, Italy, Portuguese, Spanish, Arabic					
	Playback Photo, Video					
PC Software	CD With Measuring Software Strange View, Support Win/iMac Computer, Support Language Chinese, English, Russia, Ukrian					
Hand-held	USB Portable Digital Microscope 1.3M, 1.5x-25x	-	0	-	0	
Eyepiece	WF10x, WF16x					
Nosepiece	Quadruple Nosepiece, Ball Bearing Inner Locating					
Objective	Achromatic 4x,10x,40x(s), 100x(s, oil)					
Working Stage	Double Layer Mechanical Stage 115*125mm					
Focusing	Coaxial Coarse & Fine Focus Knob, Coarse Focusing Range 20mm					
Condenser	Abbe Condenser N.A.1.25, With Iris Diaphragm Filter					
Light Source	LED, Brightness Adjustable					
Accessory	Prepared Slide 10pcs in Box, Experiment Kit, Mobile Phone Connector Power Adapter Power Cord USB Cable Software CD					
Packing	Hand Carry Box + Master Carton					

### A33.5505 4.3" OLED Digital Microscope, 3.6M 600x





3.6M CMOS Digital Camera
4.3" LCD Screen With Focus Knob, Menu, Video & Photo Knob
Magnification 1x-600x, With Micro SD Card Support Max 64G
8 LEDs Brightness Adjustable, Built-in Battery for 6 Hours Working
Magic Stick Plate With Suction Cup For Any Smooth Surface

A33.5505 4.3" OLED Digital Microscope, 600x			
LCD	4.3"OLED		
Pixels	3.6M Camera		
Magnification	1~600x		
Minimum Working Distance	15mm		
Light Source	8 LEDs Brightness Adjustable, Built-in Battery for 6 Hours Working		
System	Support 16 Languages		
Light Source	8 LEDs Brightness Adjustable, Built-in Battery for 6 Hours Working		
Size	200*170*80mm		

## A33.5510 4.3" LCD Digital Microscope, 1000x, 2.0M





bright Adjustment Support TF Card



8 LEDs



1080p 2.0M Pixels Resloution Digital Camera
4.3 Inch TFT Screen 16:9 Real Time Sharp & Clear Image
Total Magnification 1000x, Focusing Range 40mm
Data Output To TF Card, USB 2.0
8 LEDs Light Source Brightness Adjustable

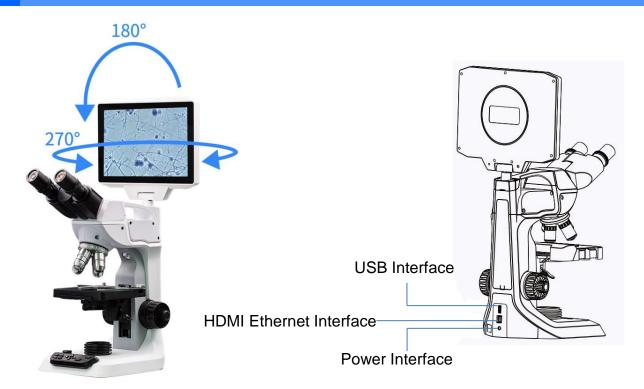
A33.5510 4.3" 1000X 1080P LED Digital Microscope			
Image Sensor	2.0M High Quality Sensor		
Magnification	50X-1000X		
Screen	4.3 Inch TFT Screen, 16:9		
Focusing Range	0-40mm		
Resolution	1920*1080P,1280*960P,640*480P		
Data Format	JPG/AVI		
Light Source	8 LEDs(Brightness Can Be Adjusted)		
Frame Rate	30 FPS		
Interface	USB 2.0		

## A33.3712 10.1" LCD Digital Biological Microscope









# **Biological & Stereo Objective**



**Biological Objective** 



Stereo Objective

A33.3712 LCD	Digital Biological Microscope Specification	5.0M	8.0M	16M
LCD Screen	10.1", Resolution 1920x1200p	•	•	•
External Interface	HDMI		•	•
Support External Devices	Display / Projector		•	•
Storage	TF Card	•	•	•
Video Resolution	1080p/30FPS	•	•	•
	5.0 M	•		
Photo Resolution	8.0 M		•	
	16M			•
Measuring	Crosshair	٠	•	٠
Positioning	Crosshair, Arrow Pointer Coordinate Colors Are Black, White, Red, Blue, Green	•	•	•
Feature	Biological Or Stereo	•	•	•
	40x-400x	•		
	10x-400x		•	
Manualtiantian	10x-1000x			•
Magnification	64x-640x	0		
	16x-640x		0	
	16x-1600x			0
<b>F</b> uenia ee	WF10x/18mm	••	••	••
Eyepiece	WF16x/13mm	00	00	00
	Triple	•		
Nosepiece	Quadruple		•	
	Quintuple			•
Diala sia al Ohia ativa	Infinity Plan Objective 4x/ 10x/ 40x	•	•	
Biological Objective	Infinity Plan Objective 4x/ 10x/ 40x/ 100x			•
Stereo Objective	Infinity Objective 1x		•	•
Focusing	Coaxial Coarse & Fine Focus	•	•	•
Working Stage	Double Layers Mechanical Stage 140x130/76x36mm	•	•	•
Condenser	Abbe	•	•	•
Illumination	Transmit & Side LED Light Source	•	•	•
Input Voltage	19V	•	•	•
-	Aluminum Box	0	0	0
Optional Accessories	Aluminum Box With Tie Rod	0	0	0
	High-capacity Lithium Battery	0	0	0
Note: "  "In Table Is Stand	ard Outfits, "o" Is Optional Accessories.		·	

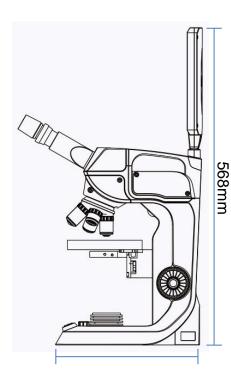
## A33.3713 10.1" LCD Digital Biological Microscope, Internet Version

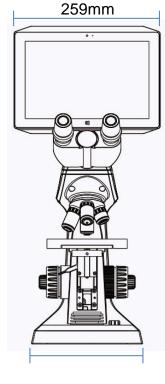






10.1" LCD Screen Full HD 1080p Display 5.0M,8.0M,16M Digital Camera Built-in
Built-in 8G Memory For Picture & Video Capture, Output To USB And WIFI
With Ethernet Connection Port & Interactive Software For Teaching
Biological & Stereo 1x Lens Low Power Combined In One
Up & Bottom LED Light Source For All Specimen View







A33.3713 Series Of High-definition Digital Liquid Crystal Microscopes Can Meet The Needs Of Biological Specimen Sectioning In The Teaching Field. An Eye-catching Handle Is Provided Above The Fuselage, Which Can Ensure That The Microscope Is Always Kept In A Positive Position When Lifting And Moving The Microscope, Thereby Effectively Preventing The Eyepieces And Observation Samples From Falling. In Addition, The Instrument Can Be Equipped With A High-capacity Lithium Battery (optional) And Can Be Used Without A Power Supply, Which Is Very Convenient For Outdoor Viewing.

0.1", Resolution 1920x1200 thernet IFI SB Camera esktop/Laptop/Integrated Machine uilt-in 8G/Inserted U disk 080P/30fps 0 M 0 M 0 M 5 M rosshair rosshair, Arrow Pointer pordinate Colors Are Black, White, Red, Blue, Green	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •
IFI SB Camera esktop/Laptop/Integrated Machine uilt-in 8G/Inserted U disk 080P/30fps 0 M 0 M 0 M 0 M 0 M 0 M 0 M 0 M	•	•	•
SB Camera esktop/Laptop/Integrated Machine uilt-in 8G/Inserted U disk 080P/30fps 0 M 0 M 0 M 5 M rosshair rosshair, Arrow Pointer	•	•	•
esktop/Laptop/Integrated Machine uilt-in 8G/Inserted U disk 080P/30fps 0 M 0 M 0 M 0 M 0 M cosshair rosshair	•	•	• • • •
uilt-in 8G/Inserted U disk 080P/30fps 0 M 0 M 6 M rosshair rosshair, Arrow Pointer	•	•	• • • • • • • • • • • • • • • • • • • •
080P/30fps 0 M 0 M 6 M rosshair rosshair, Arrow Pointer	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•
0 M 0 M 0 M 5 M rosshair rosshair, Arrow Pointer	•	• • • •	•
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ositioning Reference Can Be Stored	•	•	•
ological & Stereo	•	•	٠
)x-400x	•		
)x-400x		•	
)x-1000x			•
łx-640x	0		
Sx-640x		0	
Sx-1600x			0
/F10x/18mm	••	••	••
F16x/13mm	00	00	00
iple	•		
uadruple		•	
uintuple			٠
finity Plan Objective 4x/ 10x/ 40x	•	•	
finity Plan Objective 4x/ 10x/ 40x/ 100x			٠
finity Objective 1x		•	٠
oaxial Coarse & Fine Focus	•	•	•
ouble Layers Mechanical Stage 140x130/76x36mm	•	•	•
bbe	•	•	٠
ansmit & Side LED Light Source	•	•	•
)V	•	•	•
uminum Box	0	0	0
uminum Box With Tie Rod	0	0	0
gh-capacity Lithium Battery	0	0	0
	blogical & Stereo x-400x x-400x x-400x x-1000x x-640x x-640x x-640x x-1600x F10x/18mm F16x/13mm F16x/13mm ple uadruple uintuple inity Plan Objective 4x/ 10x/ 40x inity Plan Objective 4x/ 10x/ 40x inity Objective 1x paxial Coarse & Fine Focus puble Layers Mechanical Stage 140x130/76x36mm ble ansmit & Side LED Light Source V uminum Box uminum Box With Tie Rod	sitioning Reference Can Be Stored  blogical & Stereo x-400x  - 400x - 40	sitioning Reference Can Be Stored blogical & Stereo x-400x

# A33.3714 10.1" LCD Digital Biological Microscope, Win10 Pad +Internet Version







10.1" Win10 Pad 5.0M, 14M Digital Camera + HDMI + VGA Output Windows Pad Win10 System Built-in 4G/8G Memory SSD 64G/128G With Ethernet Connection Port & Interactive Software For Teaching Biological & Stereo 1x Lens Low Power Combined In One Up & Bottom LED Light Source For All Specimen View

Each Intelligent Digital Microscope Provides Multiple USB Interfaces, Which Can Be Connected To Multiple Sensors At The Same Time To Ensure The Digital Experiment Of The Sensor.





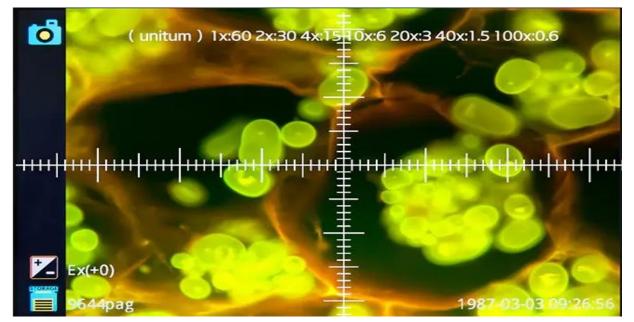
A33.3714 Series High-definition Digital Lcd Microscope Can Meet The Needs Of Biological Specimen Sectioning And Solid Observation In The Teaching Field. It Is An Intelligent Digital Microscope With Integrated Computer. The All-metal Fuselage Is Integrally Molded. The Fuselage Comes With A 10.1 "high-definition Display With A Resolution Of 1920x1200 And Real-time Display Of Ultra-high-definition Images, Which Meets The Needs Of Simultaneous Observation By Multiple People. An Eye-catching Handle Is Provided Above The Fuselage, Which Can Ensure That The Microscope Is Always Kept In A Positive Position When Lifting And Moving The Microscope, Thereby Effectively Preventing The Eyepieces And Observation Samples From Falling.

A33.3714 Digital Biological Microscope Specification			14M
LCD Screen	10.1", 1920x1200	•	٠
Video Resolution	1080P/30fps	•	٠
Dhata Dagakitian	5.0 M	•	
Photo Resolution	14 M		٠
High Speed digital camera	UBS 3.0		
External Interface	Projector/Monitor	•	•
Storage	Computer Memory	•	•
Photo/Video Playback	Yes		
Data Output	HDMI, VGA, USB 3.0	•	•
OS	Windows 7/10	•	٠
Solid State Disk	64G	•	
Internal Oterrane	128G		•
Internal Storage	4G	•	
	8G		٠
CPU	Intel Core i3	•	
	Intel Core i5		٠
Feature	Biological & Stereo	•	٠
	10x-400x	•	
Magnification	10x-1000x		٠
Magnification	16x-640x	0	
	16x-1600x		0
<b>F</b> ueniese	WF10x/18mm	••	••
Eyepiece	WF16x/13mm	00	00
Necesiere	Quadruple	•	
Nosepiece	Quintuple		٠
	Infinity Plan Objective 4x/ 10x/ 40x	•	
Biological Objective	Infinity Plan Objective 4x/ 10x/ 40x/ 100x		٠
Stereo Objective	Infinity Objective 1x	•	٠
Focusing	Coaxial Coarse & Fine Focus	•	•
Working Stage	Double Layers Mechanical Stage Stage 140x130/76x36mm	•	•
Condenser	Abbe	•	•
Illumination	Transmit & Side LED Light Source	•	٠
Input Voltage	19V	•	٠
Ontional Assass	Aluminum Box	0	0
Optional Accessories	Aluminum Box With Tie Rod	0	0
Note: " In Table Is Standar	d Outfits, "○" Is Optional Accessories.		

## A33.3733 10.1" LCD Digital Fluorescent Microscope, Ethernet Version

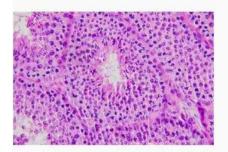


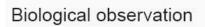
10.1" LCD Screen Full HD 1080p Display 5.0M,8.0M,16M Digital Camera Built-in
Built-in 8G Memory For Picture & Video Capture, Output To USB And WIFI
With Ethernet Connection Port & Interactive Software For Teaching
Fluorescent + Biological Infinity Plan 4x10x40x100x + Stereo 1x Lens Low Power Combined In One
Up & Bottom LED Light Source For All Specimen View



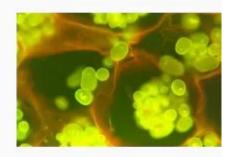
The instrument has a built-in HD digital image module with an effective pixel of 5 million and supports HD video 1080p/30fps. The free professional observation software also supports scale calibration and can measure observation samples quickly and accurately which makes your observations more reliable.

A33.3733 Digit	al Fluorescent Microscope Specification	5.0M	8.0M	16M
LCD Screen	10.1", Resolution 1920x1200	•	•	•
	Ethernet	•	•	•
External Interface	WIFI		•	•
	USB Camera			•
Support External Devices	Desktop/Laptop/Integrated Machine	•	•	•
Storage	Built-in 8G/Inserted U disk	•	•	•
Video Resolution	1080P/30fps	•	•	•
	5.0M	•		
Photo Resolution	8.0M		•	
	16M			•
Measuring	Crosshair	•	•	•
	Crosshair, Arrow Pointer			
Positioning	Coordinate Colors Are Black, White, Red, Blue, Green	•	•	•
	Positioning Reference Can Be Stored			ĺ
Feature	Biological & Stereo	•	•	•
	40x-400x	•		
	10x-400x		•	
	10x-1000x			•
Magnification	64x-640x	0		
	16x-640x		0	
	16x-1600x			0
	Triple	•		
Nosepiece	Quadruple		•	[
	Quintuple			•
	Infinity Plan Objective 4x/ 10x/ 40x	•	•	
Biological Objective	Infinity Plan Objective 4x/ 10x/ 40x/ 100x			•
Stereo Objective	Infinity Plan Objective 1x		0	0
Focusing	Coaxial Coarse & Fine Focus	•	•	•
Working Stage	Double Layers Mechanical Stage, 140x130/76x36mm	•	•	•
Condenser	Abbe	•	•	•
Illumination	Transmit & Side LED Light & Coaxial Light	•	•	•
Input Voltage	19V	•	•	•
	B Exciton Wavelength: 460~490nm			
Fluorscent Filter	G Exciton Wavelength: 510~550nm	•	•	•
(Choose 1 From 3 Bands)	U Exciton Wavelength: 365~420nm			
	Aluminum Box	0	0	0
Optional Accessories	Aluminum Box With Tie Rod	0	0	0
	High-capacity Lithium Battery	0	0	0
Note: "  "In Table Is Stand	ard Outfits, "o" Is Optional Accessories.			









Stereo observation

Fluorescent

## A32.0902 Digital Stereo Microscope, 0.8x~3.5x, 5.0M





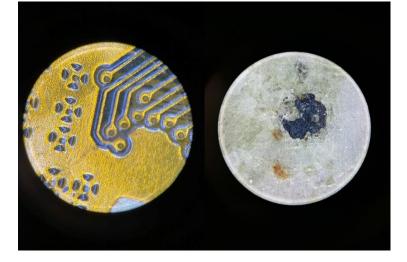
Two focusing knobs are tension adjustable,

0.8x~3.5x Zoom Objective, Zoom Ratio 1:4.4 Binocular Head Build-in Integrated 5.0 Mega Pixels COMS Camera Data Output HDMI port, Analog Video Port(RCA), USB2.0 Port, SD Card 2G. Top & Bottom Illumination Single 5W LED Brightness Adjustable Working Distance 95mm With Coarse Focusing Knob

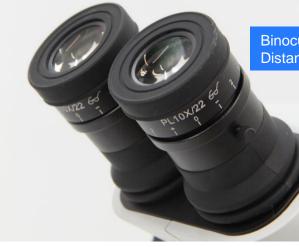
A32.0902 Digital Zoom Stereo Microscope			
Magnification	8x~35x		
Head	Binocular, 60° Inclined, Built-in 5.0M CMOS Digital Camera, Interpupillary Range 50~75mm		
Eyepiece	Wide Filed, High Eyepoint WF10x/22mm, Diopter Adjustment ±5		
Objective	0.8x~3.5x Zoom Objective, Zoom Ratio 1:4.4		
Working Distance	95mm.		
Focus	Two focusing knobs are tension adjustable, adjustment range 95mm		
Illumination Top Illumination: Single 5W high power LED, independent switch, brightness angle adjustable			
	Bottom Illumination: Single 5W high power LED, independent switch, brightness adjustable		
Photo System	Build-in Integrated 5.0 Mega Pixels COMS Camera, Membrane Switch and SD Card Slot		
Image Output	HDMI port, Analog Video Port(RCA), USB2.0 Port, SD Card 2G.		

## A32.0908 WIFI Digital Zoom Stereo Microscope, 0.67~4.5x, Android





5.0M WIFI Camera Built-in, WIFI Support 6 Devices
0.67x-4.5x Zoom Magnification Zoom Ratio 1:6.7
Zoom Knob With Click Stop Switch & Magnification Lock
45° Inclined Binocular & Trinocular Head With Working Distance 110mm
Pole & Track Stand With ransmit & Reflect LED Light Source

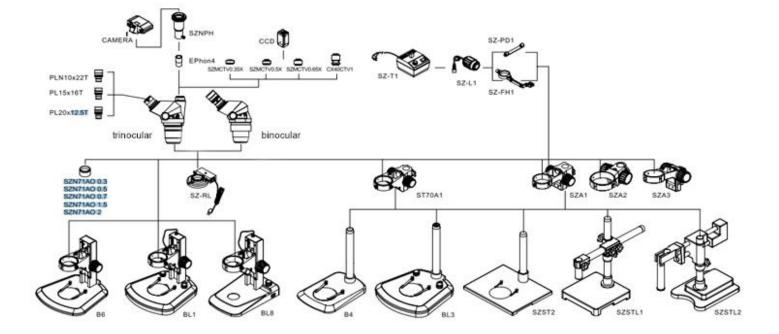


Binocular Head, 45° Inclined, Inter-pupillary Distance 52-76mm, With Eyepiece Lock Screw

0.67-4.5x, W.D.=110mm, With Click Stop & Magnification Lock On Zoom Knob



	A32.0908 Serie Zoom Stereo Microscope	-BL11	Cata.No.
Head	5.0M Built-in WIFI Digital Camera, Support Android System, Max Support 6 Devices At Same Time Binocular Head, 45º Inclined, Inter-pupillary Distance 52-76mm		
	High-Eyepoint Wide Field Plan Eyepiece PL10x/22mm, Diopter Adjustable	••	A59.0955-1022
Eyepiece	High-Eyepoint Wide Field Plan Eyepiece PL15x/16mm, Diopter Adjustable	0	A51.0955-1516
	High-Eyepoint Wide Field Plan Eyepiece PL20x/12mm, Diopter Adjustable	0	A51.0955-2012
Lens	0.67-4.5x, W.D.=110mm, With Click Stop & Magnfication Lock On Zoom Knob	•	
	0.3X/WD287mm	0	A52.0908-03
	0.4X/WD217mm	0	A52.0908-04
Auxliary	0.5X/WD177mm	0	A52.0908-05
Objective	0.75X/WD120mm	0	A52.0908-75
	1.5X/WD47mm	0	A52.0908-15
	2X/WD26mm	0	A52.0908-20
Focus	Bracket ST70A1 With Coarse Focusing Knob, Focus Range 50mm	•	
Base	BL Pillar Stand, Fan Base, With Up/Bottom LED Light Source, Brightness Adjustable	•	A54.0961-BL11
Packing	Inner Foam + Strong Carton Box	•	



## A32.0920 Digital Stereo Microscope



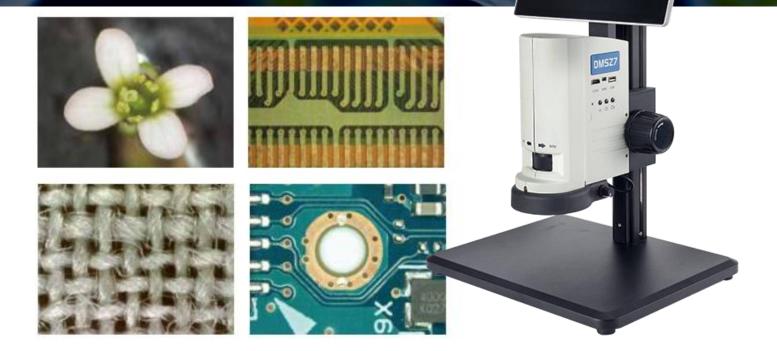


Stereo Microscope Zoom Lens 0.7x~5x Zoom Ratio 1:7 Built-in Camera With HDR Image, OSD Manual, 1/3" COMS, 4.0M Pixel, 16G Memory Output HDMI/USB2.0/Mini USB; Support SD Card/Wireless Keyboard & Mouse 0.5x/1.0x/1.4x Main Objective Working Distance 105mm~170mm Built-in LED Ring Lamp With Three Circles, Intensity Separately Adjustable

A32.0920 Digital Stereo Microscope Specification				
Body	Zoom Lens 0.7x~5x; Built-in Camera With HDR Image, OSD Manual, 1/3″ COMS, 4.0M Pixel, 16G Memory; Output HDMI/USB2.0/Mini USB; Support SD Card/Wireless Keyboard & Mouse			
	1.0x Main Objective, WD=105mm			
Main objective	1.4x Main Objective, WD=100mm			
	0.5x Main Objective, WD=170mm			
Illumination	LED Ring Lamp 56 Bulbs, Intensity Adjustable, Color Temperature 5000-5500K			
	LED Ring Lamp With Two Circles, Intensity Separately Adjustable, Color Temperature 5000- 5500K			
Base	Big Plain Stand, Lifting Range 225mm			
Accessories	1.5m USB Cable; 5m HDMI Cable			

## A36.0920 LCD Digital Stereo Microscope, 10.6"



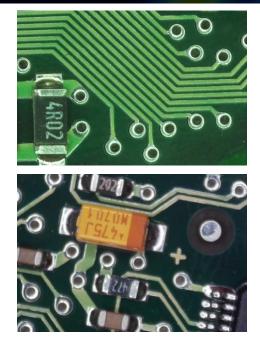


IPS10" Touch Screen LCD Monitor, -5°~15° Inclination Adjustable Stereo Microscope Zoom Lens 0.7x~5x Zoom Ratio 1:7 Built-in Camera With HDR Image, OSD Manual, 1/3" COMS, 4.0M Pixel, 16G Memory Output HDMI/USB2.0/Mini USB; Support SD Card/Wireless Keyboard & Mouse 0.5x/1.0x/1.4x Main Objective Working Distance 105mm~170mm

	A36.0920 LCD Digital Stereo Microscope Specification
LCD	IPS10" Touch Screen LCD Monitor, -5°~15° Inclination Adjustable
Body	Zoom Lens 0.7x~5x; Built-in Camera With HDR Image, OSD Manual, 1/3" COMS, 4.0M Pixel, 16G Memory; Output HDMI/USB2.0/Mini USB; Support SD Card/Wireless Keyboard & Mouse
Main Objective	1.0x Main Objective, WD=105mm 1.4x Main Objective, WD=100mm 0.5x Main Objective, WD=170mm
Illumination	LED Ring Lamp 56 Bulbs, Intensity Adjustable, Color Temperature 5000-5500K LED Ring Lamp With Two Circles, Intensity Separately Adjustable, Color Temperature 5000-5500K
Base	Big Plain Stand, Lifting Range 225mm
Accessories	1.5m USB Cable; 5m HDMI Cable

## A32.1201 Digital Stereo Microscope, 2x/4x, 1.3M







1.3M USB2.0 Digital Camera Built-in Binocular Head Total Magnification 20x/40x With 2x/4x Lens And WF10x/20 Eyepiece Track Stand With Coarse Focusing Knob Incident & Transmit 12V10W Halogen Lamp Brightness Adjustable With Software For Measurizing Support Win 7, Win10

Items	A32.1201 Digital Stereo Microscope				
Head	Inclined Binocular Head,360° Rotatable, Built-in CMOS(1.3M Pixel)				
Eyepiece	WF10X /Ф20				
Objective	2x/4x				
Focusing	Coarse Focusing Adjustment				
Incident Light	Halogen Lamp 12V/10W,Brightness Adjustable				
Transmitted Light	.ight Halogen Lamp 12V/10W,Brightness Adjustable				
	Optional Accessories Item No.				
	WF5X/Φ16	A51.1201-05			
Eyepiece	WF15X/Φ15	A51.1201-15			
	WF20X/Ф10	A51.1201-10			

## A32.1239 Digital Stereo Microscope, 1.3M



1.3M/3.0M USB2.0 Digital Camera Built-in Binocular Head Total Magnification10x/20x/40x With 1x/2x/4x Lens And WF10x/20 Eyepiece Track Stand With Coarse Focusing Knob & Handle For Easy Carrying Separate Power Switch For Up/Bottom Light Source Up 1W LED, Bottom 7x20mA LED Light Source, Brightness Adjustable

	A32.1239 Digital Stereo Microscope	1.3M	3.0M	
Camera	1.3M Pixels, 1024x768	●		
3.0M Pixels, 2048x1536       Data Interface       USB2.0				
Head	Binocular Head, 45° Inclined, Diopter Adjustment <u>+</u> 5, Interpupillary Distance 48~75mm			
Eyepiece	WF10x/20mm			
Objective	1x,2x,4x Standard, 1x,2x,3x Optional			
Focusing	Coarse Focusing, Range 40mm			
Working Distance	57mm			
Stand Track Stand + Touch Switch With Dia 70mm Glass Stage And White/Black Stage				
Light Source	Top 1W LED, Bottom 7x20mA LED Light Brightness Adjustable			
Power AC 100~240V Wide Range Power, With 3xAA Rechargeable Batteries Built-in Base. (For Order Shipped By Air, The Batteries Will Not Be Included)				
	Optional Accessories			
Eyepiece	WF5x/18mm	E51.1	221-5	
	WF10x/20mm	E51.1	221-10	
	WF15x/15mm	E51.1	221-15	
	WF20x/10mm	E51.1	221-20	

## A32.6401 Digital Stereo Microscope, 0.7x~4.5x, 12M



0.7x~4.5x Zoom Lens 14x-90x Total Magnification On 10.6" LCD Full HD 12.0M Image And 1080p/30fps Video Upper + Side LED Light Brightness Adjustable SD Card Slot And HDMI Output To Monitor Available Black Pole Stand 38\*25cm





A32.6401-12M

A36.6401-12M

A32.6401-12MH

	A32.6401, A36.640	1 Series Digital Microscope	A32.6401 -12M	A36.6401 -12M	A36.6401 -12MH
LCD	Size	10.6" IPS LCD		•	•
Screen	Resolution	1366*768		•	•
	Camera Pixel	12MP	•	•	•
	Video Resolution	1080p/60fps	•	•	•
	Data Output	HDMI	•		•
	WDR	Yes	•	•	•
Digital Camera	Function	Auto Exposure, Exposure Offset Auto White Balance Photo, Video Recording	•	•	•
	Storage	SD Card Storage (Max 32G)	•	•	•
	External Interface	Projector/Monitor With HDMI Port	•		•
	Objective	0.7x~4.5x Zoom Lens	•	•	•
	Total Magnification	14x~90x On 10.6" LCD Screen	•	•	•
Optical	Illumination	Side/Up LED Light, Brightness Adjustable	•	•	•
	Focus Range	60mm	•	•	•
	Working Distance	88mm	•	•	•
	Column	Round Pole, Dia.25mm	•	•	•
Stand		380mm*250mm*20mm, Black	•	•	•
etana	Stand	320mm*260mm*20mm, White (Same Cost)	0	0	0
	A52.6401-0.5	Auxilliary Lens 0.5x	0	0	0
	A52.6401-2.0	Auxilliary Lens 2.0x	0	0	0
Optional	Boot Logo		0	0	0
	WiFi SD Card, Upgrade To WiFi Microscope		0	0	0
	SD Card		0	0	0
Power	DC 12V1A, Wide F	Range 100~240V AC Adapter	•	•	•
Remark: "	Means Standard	Outfit, "o" Means Optional	1	1	I

## A32.3645 Digital Stereo Microscope, 0.7x~4.5x, 3.0M





3.0M Built-in Digital Camera USB2.0 Outpu Optical Magnification 7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives High Eyepoint, Dia.30mm WF10x/20mm, WF15x, WF20x, WF25x Optional Working Distance 100mm, Up To 30~165mm With Auxiliary Objectives 35 Kinds Stand Optional, Details See A54.3630

### **Product Details**





WF10x/20mm, High Eyepoint, Dia.30mm

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0.7x-4.5x, Magnification Up To 3.5x-180x With Optional Eyepieces And Auxiliary Objectives

	A32.3645 Series Digital Zoom Stereo Mic	roscope Specification		
Head	Trinocular Head, 45° Inclined, 360° Rotatable, Interpupillary Adjustment 54-75mm, Both Eyepiece Tube ±5° Diopter Adjustable, With Eyepiece Adapter Focus Adjustable, Light Split Fixed P50:E50, <b>Simul Focal Design</b> To Show Image On Both Eyepiece & Photo Port At Same Time			
Eyepiece	WF10x/20mm, High Eyepoint, Dia.30mm			
Zoom Lens	0.7x~4.5x			
Zoom Ratio	1:6.5			
· ·	7x-45x, Up To 3.5x-270x With Optional Eyepie	<u>i</u>		
Working Distance	100mm, Up To 30~165mm With Auxiliary Obj	ectives		
Field Of View	0.9-57.1mm (Detail See Optical Data Sheet)			
Focusing	Pole Stand Coarse Focusing Range 50mm, T Track Stand Coarse Focusing Range 74mm,	•		
Stand	35 Kinds Stand Optional, Details See <u>A54.363</u> Choose Model According To Cata. No. Like: A32.3645-B1 Means Binocular Head With B			
	Digital Camera Specifica	ation		
Camera Sensor	3.0Mpixel 1/2"COMS; 1.3M,5.0M Optional			
Resolution	2048*1536			
Pixel Size	3.18um*3.18um			
Transmission Rate	7 fps@2048*1536			
Sensitivity	0.9v/lus-secx			
Scanning Mode	Successive Scans			
Operation System	Windows 2000/XP			
Data Interface	USB2.0(480Mbit/sec)			
Power	USB2.0			
	Optional Accessories	Cata.No.		
	WF10x/20mm, High Eyepoint, Dia.30mm	A51.3621-1020		
Eyepiece	WF15x/15mm, High Eyepoint, Dia.30mm	A51.3621-1515		
	WF20x/10mm, High Eyepoint, Dia.30mm	A51.3621-2010		
	WF25x/9mm, High Eyepoint, Dia.30mm	A51.3621-2509		
	WF30x/8mm, High Eyepoint, Dia.30mm, A51.3622-3008			
	Diopter Adjustable			
Auxiliary Lens	0.5x, W.D. 165mm	A52.3621-05		
	1.5x, W.D. 45mm A52.3621-15			
	2.0x. W.D. 30mm	A52.3621-20		

### A32.3602-STL2 Digital Stereo Microscope, HDMI+USB

OPTO-EDU



3.5M HDMI+USB Digital Camera With Manual Focus Knob 7x-45x, Up To 3.5x-270x With Optional Eyepieces & Auxiliary Objectives High Eyepoint, Dia.30mm WF10x/20mm, WF15x, WF20x, WF25x Optional Working Distance 100mm, Up To 30~165mm With Auxiliary Objectives 35 Kinds Stand Optional, Details See A54.3630

> Zoom Lens 0.7-4.5x Objective Lens Compose With HD Lens And Lens Cone After Mould Proof Disposing

dius: 18.417



	Hardware Configuration			
Image Sensor	Aptina AR0330 CMOS Sensor			
Expose Mode	Rolling Shutter			
Maximum Resolution	2304 x 1536 (3,538,944 Pixels)			
Sensor Optical Format	1/3" (5.07mm(H) x 3.38mm(V), Diagonal 6.09mm)			
Pixel Size	2.2μm x 2.2μm			
Dynamic Range	69.5dB			
SNR (Signal Noise Ratio)	39dB			
Spectral Characteristics	380 ~ 650nm			
Exposure Capability	Real-time Auto, Single Auto, Manual Adjustment			
White Balance	Real-time Auto, Single Auto, Manual Adjust R G B Seperately			
Display(preview) Resolution	HDMI:1920X1080i60,1920X1080P30,1280x720P60,640x480P60(Auto Fit-to-fill Displayer) USB:1920X1080@30FPS,1280x720@30FPS(Optional To Display)			
Record Format	Snapshot Picture Format: JPG Resolution: HDMI: 2304 x 1536, 2304 x 1296, 1920x1080, 1280x720, 800x480 USB: 1920x1080, 1280x720, 800x480 Record Video Format: MOV Resolution: HDMI: 1280x720@30FPS, 800x480@30FPS USB: 1920x1080@30FPS, 1280x720@30FPS, 800x480@30FPS			
Record Route	HDMI: TF Card(Maximum Support 64G) USB: PC			
	Software Environment			
Power Supply	HDMI: Direct Current, Power Plug, (Maximum Current 1A) USB: USB Port Of PC Or Laptop (No Need Other Power Supply)			
Displayer	Recommend 16:9, At Least 1080P HD Displayer			
	Operating Environment			
Operating Temperature	0°C ~ 40°C			
Storage Temperature	-20°C ~ 60°C			
Operating Humidity	30~60%RH			
Storage Humidity	10~80%RH			

## A34.5001 USB Digital Microscope, 300x, 5.0M



Total Magnification 20x-300x 5.0M High Resolution CMOS Digital Camera 8 LEDs Ring Light Built-in Brightness Adjustable Universal Angle Adjustable Stand For Easy View With Software MicroCapture For Measurement



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	A34.5001 USB Digital Microscope		
Image Sensor	5 Mega Pixels (True Resolution)		
Still Capture Resolution	2592×1944, 2048×1536, 1920×1080, 1280×1024		
Video Capture Resolution	1920×1080, 1280×1024		
Focus Range	Manual Focus From 10mm To 50mm		
Frame Rate	Max 30f/s Under 600 Lus Brightness		
Magnification Ratio	20x To200x And 300x		
Video Format	AVI		
Photo Format	JPEG Or BMP		
Light Source	8 LED (Adjustable By Control Wheel)		
PC Interface:	USB2.0		
	Windows XP/Vista/Win7		
Operation System	Mac OS X 10.6 Or Above		
OSD Language English, German, Spanish, French, Russian			
Bundle Software	MicroCapture With Measurement		
Product Size	110mm (L) x 33mm (R)		
Weight	90g		
Warranty	1 year		

# A34.5002

USB Digital Microscope, 300x.0M, 5WIFI+USB Miroscope, 200x, 3.0M, iPad/Android/Win

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Total Magnification 10x-200x 3.0M WIFI +USB Miroscope For iPad/Android/Win USB 2.0, TF Card Slot To Save Photo Video 6 LEDs Ring Light Built-in Brightness Adjustable Pole Stand With Holder Height Adjustable Focusing



3.0M, 1080p, 10~200x, 6 LED, USB 2.0, TF Card Slot, With Stand, iPhone/iPad/Pc/Android

A34.5002-3	3.0M WIFI Miroscope, iPhone/iPad/Pc/Android, 10X-200X		
Resolution	3.0M, True Resolution		
Senser	1/4" CMOS, Color		
Magnification	10x~200x		
Video Resolution	1280x720 (720P), 640x480 (VGA)		
Video Format	H.264		
	Wireless		
Frame Rate	1080P: 15fps,		
	VGA: 25fps		
Storage	TF Card Slot		
Photo Resolution	1280x720 (720P), 640x480 (VGA)		
Photo Format	JPG		
Focus Range	0~40mm, Manual Focus		
Snapshot	By Software		
PC Interface	USB2.0		
IOS/Android Interface	WIFI Direct		
Transmission Range	20M, Open Sight		
Transmission Rate	150Mbps		
Power Supply	DC5V, 1A, By Mini USB		
Battery	Rechargeable Battery, Lithium 1300mAh, Can Be Charged By Adaptor/USB		
Battery Working Time	Around 75 Minutes		
Operation Temperature	0~65°		
Light Source	6 LEDs, Brightness Adjustable		
	Rechargeable Li-ion Battery		
Power Source	Working Time: 90mins, Charging Time: 100mins		
	Charging Power: 5V DC		
	IOS (5.1 Or Later)		
	Android		
Operation System	Windows XP/Win7/Win8		
	Mac Book (10.7 Or Later)		
	IOS: Wifi Capture, Search And Download From App Store		
Арр			
OSD Language	English, Deutsch, Spanish, Russian, Italian, French, Portuguese, Dutch, Polish, Japanese, Korean, Chinese		
Bundle Software For PC	Portable CaptureHD (With Measurement)		
Measureement	Yes, For Windows And Mac Book		
Accessories	Professional Stand, Adapter, USB Cable, Softare CD, Calibration Chargfe		
	Microscope: 154mm (L) x 44mm (R)		
Dimension	Professional Stand: 165mm(L) x118mm(W)x12mm (H)		
Weight	130g		
Packaging	Gift Box, 6pcs/carton 9.0kgs/carton, 44x42x35cm		

## A34.5017 WIFI Digital Miroscope, 200x, 2.0M, iPad/Android



HD INTERNET WIFI MICROSCOPE

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Total Magnification 10x-200x 2.0M WIFI Miroscope For iPad/Android With Tiny Capture App , With Rechargeable Battery 6 LEDs Ring Light Built-in Brightness Adjustable Pole Stand With Holder Focusing Range 50mm

A34	4.5017 WIFI Digital Miroscope, 200x, 2.0M, iPad/Android
Description	Internet Wi-Fi Digital Microscope
Magnification Ratio	10x - 200x
Still capture resolution	1920x1080,640x480,320x240
Video capture resolution	1920x1080,640x480,320x240
Focus Range	Manual focus from 0mm to 50mm
Video format	AVI
Photo format	JPEG
Light source	6 LED (adjustable by control wheel)
	Rechargeable Li-ion battery
Power source	Working time: 100mins
	Charging power: 5V DC
IOS/Android interface	Wi-Fi
	IOS: Tiny Capture
Арр	Search and download from App Store
	Android: Tiny Capture
Size	Microscope: 154mm (L) x 44mm (R)
Lead time	7-55 days
Term	FOB Beijing
	Microscope
Dookogo contento	Adaptor/USB cable
Package contents	Stand
	User Manual
	Gift box,
Packaging info	6pcs/carton
	9.0kgs/carton
	43.5x41.5x35cm
Valid Date	90 days

## A36.1502 9 LCD Digital Stereo Microscope, 5.0M



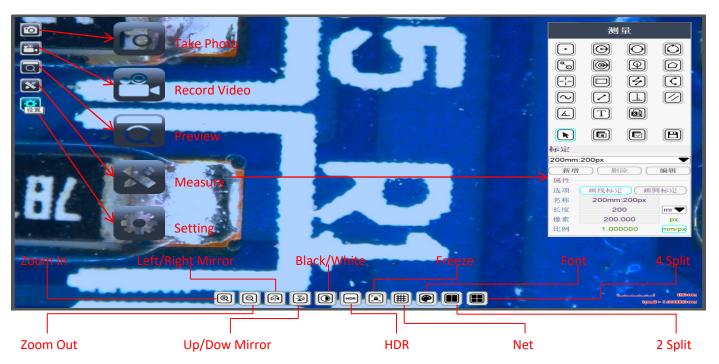


Upper 56 LEDs Right Light Brightness Adjustable

5.0 M, 9" LCD, 1/2.8" CMOS, LCD Viewing Angel Free Adjustable
USB2.0 Real Time Image Output, TF Card, USB Mouse Control Menu For Measure
Specially Optimized LCD Digital Stereo Microscope
0.7~4.5x Zoom Stereo Microscope With Pole Stand
Up LED Right Light Source Brightness Adjustable

B.C

#### **HDMI Mouse Menu**



	A36.1502 9 LCD Digital Stereo Microscope, 5.0M	
Head	Trinocular Head, Both Eye Tube Diopter Adjustable Light Split Switch E100:P0/E0:P100 With Eyepiece Adapter + 1.0x C-Mount	
Eyepiece	WF10x/20mm, Both With Eye-cup	
Zoom Lens	0.7~4.5x	
Zoom Ratio	1:6.5	
Magnification	7x-45x, Up To 3.5x-180x With Optional Eyepieces And Auxiliary Lens	
W.D.	Working Distance100mm, With Standard 1.0x Lens	
F.O.V	Field Of View 1~95.2mm	
Light Source	Upper 56 LEDs Right Light Brightness Adjustable	A56.2103-A
Stand	B1 Pole Stand, Size 220*255mm, Pole Height 240mm, Dia.32mm	





	Optional Accessories	Cata.No.
Fueniese	WF15x/15mm, High-eyepoint	A51.1520-15
Eyepiece	WF20x/10mm, High-eyepoint	A51.1520-20
	0.5x,W.D. 177mm	A52.1520-05
Auxiliary Lens	0.75x,W.D. 120mm	A52.1520-75
	2.0x,W.D. 30mm	A52.1520-20
Light Source	Upper 56 LEDs Right Light Brightness Adjustable A56.210	
	HDMI+USB+TF Digital Camera, 38.0M, USB Measure	A59.4231
Digital Camera	7" LCD Digital Camera, AV Output	A59.5107
	9" LCD Digital Camera, AV Output	A59.5109
CCD Adapter	Eyepiece Adapter + 0.5x C-Mount A55.1520	

	A59.3509 9" LCD Digital Camera, USB+Mouse Measure, 5.0M			
Sensor	1/2.8" Sony Star Light Level CMOS Sensor			
Resolution	5.0M CMOS			
LCD Screen	9" LCD, Resolution 1024x600 High Clearance Screen			
Output	USB 2.0 Type-A, TF Card			
Pixel Size	2.0x2.0um			
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC			
	Photo, Video, Meaure, Compare			
	USB 2.0 To Win 7, Win10 System, Software S-Eye Included			
	Brightness, Contrast, Exposure, White Balance Adjustable			
Function	10x Digital Zoom, 4 Split/ 2 Split Windows Image Compae			
	Storage To TF Card			
	Cross Line With Scale, Calibrated			
	Net Line 8 Kinds, Width & Color Adjustable			
Size / Weight	Product Size 225x52x175mm, Net Weight 0.7Kg			
Standard Package	LCD Camera, USB 2.0 Cable, Mouse, DC12V Power Adapter			
	1. Insert the mouse into the camera Type-A USB 2.0 port, connect 12V power supply to camera.			
	2. Turn on the power switch, when the camera is running, the LED light turns blue			
	3. Move the mouse to the top left corner of the screen to call up the MAIN MENU, including icon :			
	Take Photo, Record Video, Preview, Measure, Setting.			
USB Mouse	<ol><li>Move the mouse to the middle position at the bottom of the screen to call up the QUICK MENU, including icon:</li></ol>			
Measure Operation	Zoom In, Zoom Out, Up/Dow Mirror, Left/Right Mirror, Black/White, HDR, Freeze, Net, Font, 2 Split, 4 Split			
	5. Click the MEASURE icon to pop up the measure window, which support over 20 kinds of measurement graphics.			
	6. Click the EDIT button and fill in the name to of new ruler to CALIBRATE. Move the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps.			
	7.Click mm/PX to open or close the screen scale.			
	8. If the USB port is directly connected to the computer, the screen and the computer can be displayed synchronously (the USB cable must be connected to the computer before the device is powered on)			
Windows Measure Operation	9. S-EYE Measure Software: Length: Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point Line Distance, Line Length Geometry: Radius Circle, Two-point Circle, Three-point Circle, Concentric Circle, Radius Circle, Two-point Circle, Three-point Circle Geometric Area: Polygon, Square Remark: Point Coordinates, Crosshairs, Coordinate Systems, Text Notes			

A36.1502 Zoom Stereo Microscope Optical Data Sheet								
Objective	Standard 1.0x		Auxiliary 0.5x		Auxiliary 0.75x		Auxiliary 2.0x	
W,D.	100mm		177mm		120mm		30mm	
Eyepiece	Mag	View Field	Mag	View Field	Mag	View Field	Mag	View Field
4.01/ /00	7.0X	28.6mm	3.5X	57.1mm	5.25x	43.8mm	14X	14.3mm
10X/20mm	45.0X	4.4mm	22.5X	8.9mm	45x	6.5mm	90X	2.2mm
15X/15mm	10.5X	21.1mm	5.25X	42.8mm	7.87x	31.8mm	21X	10.7mm
15//15/11	67.5X	3.3mm	33.75X	6.7mm	50.6x	4.7mm	135X	1.7mm
20X/40mm	14.0X	14.3mm	7.0X	28.6mm	10.5x	23.9mm	28X	7.1mm
20X/10mm	90.0X	2.2mm	45.0X	4.4mm	67.5x	3.6mm	180X	1.1mm

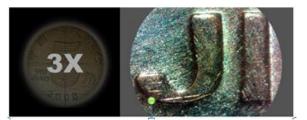
## A36.1210 9" LCD Digital Measure Stereo Microscope, 46×







OPTO-EDU



9" HD LCD View Angle Adjustable 0° ~ 100°
3.0M 1/3" CMOS Digital Camera Built-in
Zoom Lens 1x~4x, Total Magnification 11.5x~460x
Up/Bottom LED Light Source Brightness Adjustable
USB Mouse Control + Measuring Function + SD Card Slot

Items	A36.1210 LCD Stereo Microscope			
LCD Screen	9' Full HD LCD, Pixel Size 2.75µm×2.75µm, Max Fps 30fps, USB2.0、SD Card、Power Switch, Can Rotate 0°-100°			
Camera	1/3" 3.0M CMOS Sensor			
Objective	Zoom Lens 1×-4× + Reduction Les 0.3×			
Working Distance	W.D. 90.5mm			
Magnification	Digital Mag. 38.1×, Total Mag. 11.5× ~ 46×. Turn Middel Wheel Of Mouse Can Digital Zoom 1×-10×			
Light Source	Upper Light 21×20mA LED, Bottom Light 7×20mA LED, With Brightness Adjust Panel			
Power Supply	100V~240V / 12V 1A (or 2A)、USB2.0 Mouse			
Software	Mouse Connect To LCD USB2.0, Move Mouse To Left Edge Of Screen Can See Menu			

Objective Magnification	1x	1.5x	2x	3x	4x
View Of Field	18mm	12.5mm	10mm	6.5mm	4.5mm

## A36.3601 11.6" LCD Digital Measure Stereo Microscope, 17x-110x



11.6" LCD 2.0M HD Camera All-In-One Design Real-time Observation, Photo, Video, Measurement, Storage, Data Output Total Magnifiation 17.2x-110.5x With 0.7x~4.5x Zoom Lens Mouse Control Menu Support Measuring, Photo & Video Record Image Output To HDMI, TF Card, USB Disk

A36.3601 LCD Digital Stereo Microscope Specification			
LCD Screen	11.6"		
Objective	0.7-4.5x Zoom Objective, Zoom Ratio 6.4:1		
Magnification	17x-110x		
Working Distance	100mm		
Camera Sensor	1/3" COMS		
Resolution	1920*1080p		
Transmission Rate	60FPS@2.0M		
Light Source	LED Ring Light, With Switch On/Off, Brightness Adjustable.		
Output	HDMI、USB、TF		
Power	External Wide Range Adapter, Input AC 100-240V-AC50/60Hz, Output DC12V2A		
Stand	Track Stand, No Light Source, Base 260x320x15mm		
Features	Real-time Observation, Photo, Video, Measurement, Storage, Data Output		

A36.3601 LCD Digital Stereo Microscope Optical Data Sheet								
Objective	S	tandard	Auxi	liary 0.5X	Auxiliary 2X			
W,D.	1	00mm	1	65mm	30mm			
11.6''	Mag	View Field	Mag	View Field	Mag	View Field		
	17.2x-110.5x	18.5x10.5-2.8x1.5	8.6x-55.2x	37.5x21-5.5x3.0	34.4x-221x	9.5x5.5-1.5x0.7		

## A34.4970 HDMI+USB Digital Microscope, 5.3x-39.4x, 2.0M

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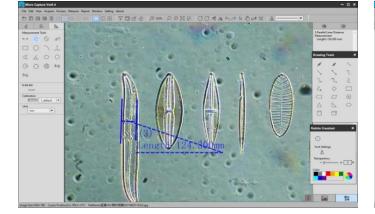


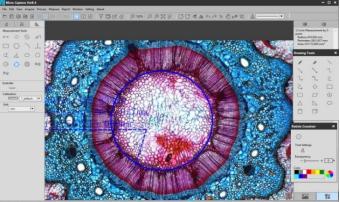


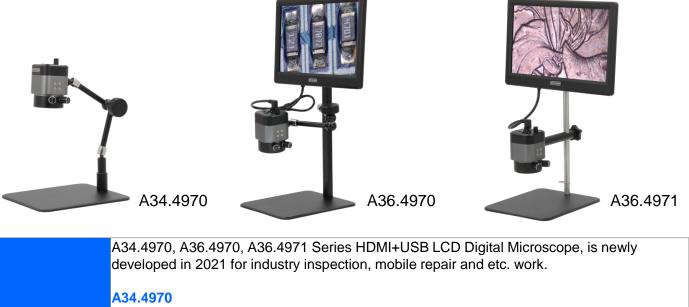
Professional Multi-Function Image Processing Software Support Measure Function On Computer

Unique Design Back Focus Knob On Camera Extends Working Distance To 44~230mm Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily Comprehensive Magnification 5.3x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

#### Measurement Calibration







--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 5.3x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable

--One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space
--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4970

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 3.6x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4971

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily

--Comprehensive Magnification 6.0x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

Features

A34.4970, A	36.4970 HDMI +USB LCD Digital Microscope	A34.4970	A36.4970	A36.4971
	5G WIFI Output	-	-	-
Data Outpu	HDMI Output	•	•	•
	USB Output	•	•	•
	5.3x-39.4x, On 12.5" LCD Monitor	•		
Magnification	3.6x-39.4x, On 12.5" LCD Monitor		•	
	6.0x-39.4x, On 12.5" LCD Monitor			•
Resolution	2.0M	•	•	•
Sensor	SONY CMOS IMX291	•	•	•
Max Pixels	1920x1080 (2,073,600 Pixels)	•	•	•
Sensor Size	1/2.8" (6.058mm(H) x 4.415mm(V))	•	•	•
Pixel Size	2.9µm x 2.9µm	•	•	•
Dynamic Range	128dB	•	•	•
SNR	30dB	•	•	•
Spectral Response	380~650nm	•	•	•
Exposure	Real-time Auto, Single Auto, Manual Adjustment	•	•	•
White Balance	Real-time Automatic, Single Automatic, Manual	-	_	
white balance	R/G/B Adjustment	•	•	•
HDM Port	Output Image Max 1920x1080P, 60fps, Auto-adaptive Display	•	•	•
USB Type C Port	Support 2 Modes: Power In, Or USB Image Output To Computer	•	•	•
Storage	TF Card, Max Support 128G	•	•	•
	Support Photo, Record, Digital Zoom In/Out, Menu			
Remote Control	Setting	•	•	•
Record Format	Photo 1920x1080 Format JPG	_		
Record Format	Video: 1920X1080P, 60fps1920X1080P30,1280x720P120,1280x720P60 Format MOV	•	•	•
Power By	DC 5V 900mA, By USB Port DC 12V 3A, By Adapter Connected To LCD Screen	•	•	•
Working Distance	44mm~230mm	•	•	•
Depth of View	0.8mm~6.5mm	•	•	•
Field of View	7mmx4mm (At The Highest Magnification 39.4x) to 45.7mmx25.8mm (At The Lowest Magnification 6x)	•	•	•
Focus	Extra Back Focus Knob, Focus To Clear Image Quickly And Easily In Large Range, Extend Working Distance To 44mm~230mm			
Light Source	Dual LED Ring Light Built-in, Vertical Illumination And Diffuse Illumination Independent Switch, Both Brightness Adjustable			
LCD Screen	Size: 12.5" Full HD 1080p Display Type: a-Si TFT-LCD/IPS/Fog Screen Number of Pixels: 1920x1080 Display Color: 16.7M Panel Brightness: 300 nits Contrast: 800:1 Viewing Angle: Horzontal/Vertical 170° Adjustable	-	•	•
Stand	360° Universal Hinge Bracket Design, Supports Arbitrary Hovering, Flexible And Easy To View Object From Any Angle Stainless Pole Stand With Metal Holder, Assure	•	•	•
	Vertical 180° And Move Up/Down Easily Metal Plate Size 180x215mm, Large Size For Mobile Repair Work	•	•	•
Note:"  "In Table Is S	tandard Outfits,"o" Is Optional Accessories "-" Is Unavail	able		

# A36.4970 12.5" LCD HDMI+USB Digital Microscope, 3.6x-39.4x, 2.0M





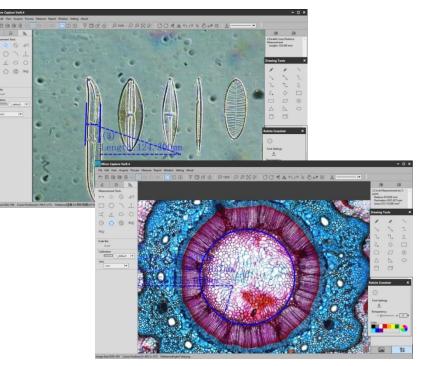
12.5" Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

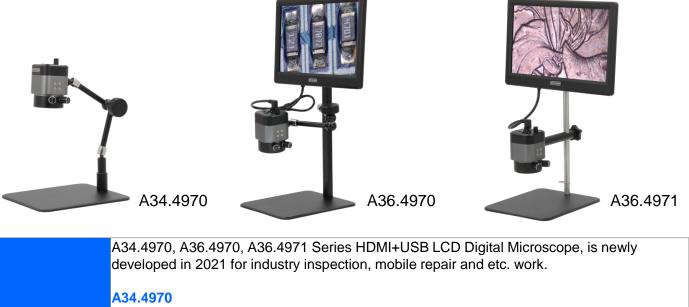
Professional Multi-Function Image Processing Software Support Measure Function On Computer

Unique Design Back Focus Knob On Camera Extends Working Distance To 44~230mm Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily Comprehensive Magnification 3.6x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)



#### Measurement Calibration





--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 5.3x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable

--One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space
--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4970

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 3.6x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4971

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily

--Comprehensive Magnification 6.0x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

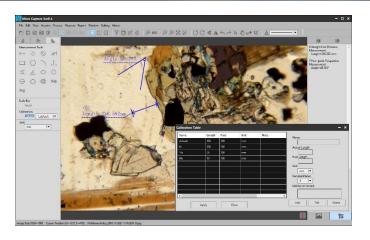
--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

Features

A34.4970, A	36.4970 HDMI +USB LCD Digital Microscope	A34.4970	A36.4970	A36.4971
	5G WIFI Output	-	-	-
Data Outpu	HDMI Output	•	•	•
	USB Output	•	•	•
	5.3x-39.4x, On 12.5" LCD Monitor	•		
Magnification	3.6x-39.4x, On 12.5" LCD Monitor		•	
	6.0x-39.4x, On 12.5" LCD Monitor			•
Resolution	2.0M	•	•	•
Sensor	SONY CMOS IMX291	•	•	•
Max Pixels	1920x1080 (2,073,600 Pixels)	•	•	•
Sensor Size	1/2.8" (6.058mm(H) x 4.415mm(V))	•	•	•
Pixel Size	2.9µm x 2.9µm	•	•	•
Dynamic Range	128dB	•	•	•
SNR	30dB	•	•	•
Spectral Response	380~650nm	•	•	•
Exposure	Real-time Auto, Single Auto, Manual Adjustment	•	•	•
White Balance	Real-time Automatic, Single Automatic, Manual	_	_	
white balance	R/G/B Adjustment	•	•	•
HDM Port	Output Image Max 1920x1080P, 60fps, Auto-adaptive Display	•	•	•
USB Type C Port	Support 2 Modes: Power In, Or USB Image Output To Computer	•	•	•
Storage	TF Card, Max Support 128G	•	•	•
	Support Photo, Record, Digital Zoom In/Out, Menu			
Remote Control	Setting	•	•	•
Record Format	Photo 1920x1080 Format JPG			
Record Format	Video: 1920X1080P, 60fps1920X1080P30,1280x720P120,1280x720P60 Format MOV	•	•	•
Power By	DC 5V 900mA, By USB Port DC 12V 3A, By Adapter Connected To LCD Screen	•	•	•
Working Distance	44mm~230mm	•	•	•
Depth of View	0.8mm~6.5mm	•	•	•
Field of View	7mmx4mm (At The Highest Magnification 39.4x) to 45.7mmx25.8mm (At The Lowest Magnification 6x)	•	•	•
Focus	Extra Back Focus Knob, Focus To Clear Image Quickly And Easily In Large Range, Extend Working Distance To 44mm~230mm			
Light Source	Dual LED Ring Light Built-in, Vertical Illumination And Diffuse Illumination Independent Switch, Both Brightness Adjustable			
LCD Screen	Size: 12.5" Full HD 1080p Display Type: a-Si TFT-LCD/IPS/Fog Screen Number of Pixels: 1920x1080 Display Color: 16.7M Panel Brightness: 300 nits Contrast: 800:1 Viewing Angle: Horzontal/Vertical 170° Adjustable	-	•	•
Stand	360° Universal Hinge Bracket Design, Supports Arbitrary Hovering, Flexible And Easy To View Object From Any Angle Stainless Pole Stand With Metal Holder, Assure	•	•	•
	Vertical 180° And Move Up/Down Easily Metal Plate Size 180x215mm, Large Size For Mobile Repair Work	•	•	•
Note:"  "In Table Is S	tandard Outfits,"o" Is Optional Accessories "-" Is Unavail	able		

#### A36.4971 12.5" LCD HDMI+USB Digital Microscope, 6x-39.4x, 2.0M



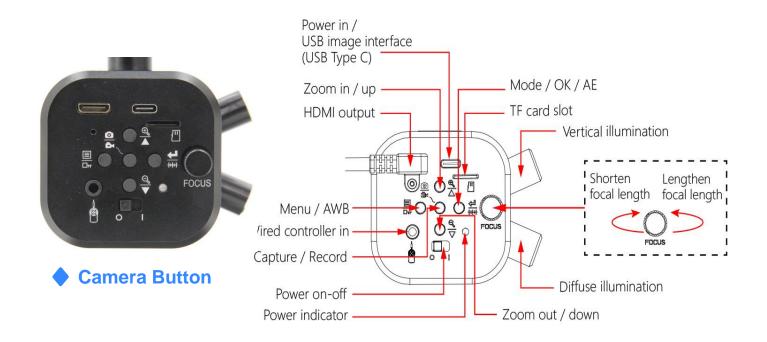


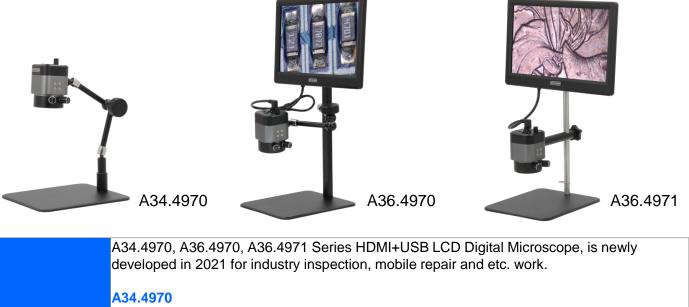
**OPTO-EDU** 



12.5" Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically. Professional Multi-Function Image Processing Software Support Measure Function On Computer

Unique Design Back Focus Knob On Camera Extends Working Distance To 44~230mm Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily Comprehensive Magnification 6.0x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)





--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 5.3x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable

--One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space
--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4970

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --360° Universal Hinge Bracket Design Supports Arbitrary Hovering, Flexible To View Any Angle

--Comprehensive Magnification 3.6x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

#### A36.4971

--12.5 " Full HD 1080P Display LCD Screen, Plug & Play Design Show Live Image Automatically.

--Professional Multi-Function Image Processing Software Support Measure Function On Computer

--Unique Design Back Focus Knob On Camera Extends Working Distance To 44 ~ 230mm. --Stainless Pole Stand With Metal Holder, Assure Vertical 180° And Move Up/Down Easily

--Comprehensive Magnification 6.0x~ 39.4x (Based on Actual Measurement On 12.5" LCD Display)

--Dual LED Ring Light With Independent Control Switch Both Brightness Adjustable --One Power Cord For All Microscope & LCD Makes Desk Clean And Clear.

--Full Metal High Quality Body With Light Weight & Compact Size To Save Desk Space

--Control Panel & Remote Control Support Photo, Record, Digital Zoom In/Out, Menu Setting

Features

A34.4970, A	36.4970 HDMI +USB LCD Digital Microscope	A34.4970	A36.4970	A36.4971
	5G WIFI Output	-	-	-
Data Outpu	HDMI Output	•	•	•
	USB Output	•	•	•
	5.3x-39.4x, On 12.5" LCD Monitor	•		
Magnification	3.6x-39.4x, On 12.5" LCD Monitor		•	
	6.0x-39.4x, On 12.5" LCD Monitor			•
Resolution	2.0M	•	•	•
Sensor	SONY CMOS IMX291	•	•	•
Max Pixels	1920x1080 (2,073,600 Pixels)	•	•	•
Sensor Size	1/2.8" (6.058mm(H) x 4.415mm(V))	•	•	•
Pixel Size	2.9µm x 2.9µm	•	•	•
Dynamic Range	128dB	•	•	•
SNR	30dB	•	•	•
Spectral Response	380~650nm	•	•	•
Exposure	Real-time Auto, Single Auto, Manual Adjustment	•	•	•
White Balance	Real-time Automatic, Single Automatic, Manual	_	_	
white balance	R/G/B Adjustment	•	•	•
HDM Port	Output Image Max 1920x1080P, 60fps, Auto-adaptive Display	•	•	•
USB Type C Port	Support 2 Modes: Power In, Or USB Image Output To Computer	•	•	•
Storage	TF Card, Max Support 128G	•	•	•
	Support Photo, Record, Digital Zoom In/Out, Menu			
Remote Control	Setting	•	•	•
Record Format	Photo 1920x1080 Format JPG			
Record Format	Video: 1920X1080P, 60fps1920X1080P30,1280x720P120,1280x720P60 Format MOV	•	•	•
Power By	DC 5V 900mA, By USB Port DC 12V 3A, By Adapter Connected To LCD Screen	•	•	•
Working Distance	44mm~230mm	•	•	•
Depth of View	0.8mm~6.5mm	•	•	•
Field of View	7mmx4mm (At The Highest Magnification 39.4x) to 45.7mmx25.8mm (At The Lowest Magnification 6x)	•	•	•
Focus	Extra Back Focus Knob, Focus To Clear Image Quickly And Easily In Large Range, Extend Working Distance To 44mm~230mm			
Light Source	Dual LED Ring Light Built-in, Vertical Illumination And Diffuse Illumination Independent Switch, Both Brightness Adjustable			
LCD Screen	Size: 12.5" Full HD 1080p Display Type: a-Si TFT-LCD/IPS/Fog Screen Number of Pixels: 1920x1080 Display Color: 16.7M Panel Brightness: 300 nits Contrast: 800:1 Viewing Angle: Horzontal/Vertical 170° Adjustable	-	•	•
Stand	360° Universal Hinge Bracket Design, Supports Arbitrary Hovering, Flexible And Easy To View Object From Any Angle Stainless Pole Stand With Metal Holder, Assure	•	•	•
	Vertical 180° And Move Up/Down Easily Metal Plate Size 180x215mm, Large Size For Mobile Repair Work	•	•	•
Note:"  "In Table Is S	tandard Outfits,"o" Is Optional Accessories "-" Is Unavail	able		

## A36.6401 10.6" LCD Digital Stereo Microscope, 14x-90x, 12M



0.7x~4.5x Zoom Lens 14x-90x Total Magnification Full HD 12.0M Image And 1080p/30fps Video Upper + Side LED Light Brightness Adjustable SD Card Slot And HDMI Output To Monitor Available

10.6" IPS LCD Screen Resolution 1366\*768



A32.6401-12M



A36.6401-12M

A32.6401-12MH

	A32.6401, A36.640	1 Series Digital Microscope	A32.6401 -12M	A36.6401 -12M	A36.6401 -12MH
LCD	Size	10.6" IPS LCD		•	•
Screen	Resolution	1366*768		•	•
	Camera Pixel	12MP	•	•	•
	Video Resolution	1080p/60fps	•	•	•
	Data Output	HDMI	•		•
	WDR	Yes	•	•	•
Digital Camera	Function	Auto Exposure, Exposure Offset Auto White Balance Photo, Video Recording	•	•	•
	Storage	SD Card Storage (Max 32G)	•	•	•
	External Interface	Projector/Monitor With HDMI Port	•		•
	Objective	0.7x~4.5x Zoom Lens	•	•	•
	Total Magnification	14x~90x On 10.6" LCD Screen	•	•	•
Optical	Illumination	Side/Up LED Light, Brightness Adjustable	•	•	•
	Focus Range	60mm	•	•	•
	Working Distance	88mm	•	•	•
	Column	Round Pole, Dia.25mm	•	•	•
Stand		380mm*250mm*20mm, Black	•	•	•
Cland	Stand	320mm*260mm*20mm, White (Same Cost)	о	0	0
	A52.6401-0.5	Auxilliary Lens 0.5x	0	0	0
	A52.6401-2.0	Auxilliary Lens 2.0x	0	0	0
-	Boot Logo		0	0	0
	WiFi SD Card, Upg	rade To WiFi Microscope	0	0	0
	SD Card		0	0	0
Power	DC 12V1A, Wide F	Range 100~240V AC Adapter	•	•	•

#### A36.5101 7" LCD Stereo + USB Portable Dual Lens Digital Microscope, 2.0M+1.3M







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Detection Of Various Currencies & Commemorative Coins & Banknotes & Stamps

Brand New Design Dual Lens LCD + Portable Digital Microscope For Different Purposes 7.0" LCD, Main Body 2.0M Camera, 5x-35x Zoom For Real Time Clear Watching Portable USB2.0 1.3M Digital Microscope, 1.5x-25x Zoom For Large Size Objective Watch on LCD USB Output To Win/Mac, With Professional StrangeView Measuring Software Support Max 32G TF Card To Take Photo & Video, Power By 5V2A Adapter

#### **Specification**

A36.5101 7" LCD Stereo + USB Portable Dual Lens Digital Microscope, 2.0M+1.3M							
LCD Screen	7" IPS Screen, With Touch Button To Take Photo & Video, One Key Switch Between Main Body Camera & Portable USB Camera						
Handheld Camera	1.3M Digital Camra, Zoom Lens 1.5x~25x, Output to 7" LCD Screen 8 LEDs Light, Brightness Adjustable						
Main Body Camera	2.0M Digital Camra, Zoom Lens 5x~35x, TF Card, USB Output Coaxial LED Ring Light, Brightness Adjustable						
TF Card Output	Support Max 32G, To Take Photo & Video						
USB Output	To Win/Mac, With Professional StrangeView Measuring Software						
Stand	Pole Stand, With Focusing Knob, Size 180x170mm						
Size	180*170*322mm						
Power Supply	DC 5V2A Adapter, Can Be Powered By USB Power Bank For Outdoor Use						
Package	Color Box + Foam, 1 pc/1 Box, With Software Disc, DC Adapter, Instruction Manual						

#### A36.5102 7" LCD Stereo + USB Portable Dual Lens Digital Microscope, 2.0M+1.3M







Brand New Design Dual Lens LCD + Portable Digital Stereo Microscope For Different Purposes 0.7x~4.5x Zoom Stereo Trinocular Microscope With WF10x/20mm Eyepiece 7.0" LCD, Main Body 2.0M Camera, 5x-35x Zoom For Real Time Clear Watching Portable USB2.0 1.3M Digital Microscope, 1.5x-25x Zoom For Large Size Objective Watch on LCD USB Output To Win/Mac, With Professional StrangeView Measuring Software

#### **Specification**

A36.5102 7" LCD Stereo + USB Portable Dual Lens Digital Microscope, 2.0M+1.3M						
LCD Screen	7" IPS Screen, With Touch Button To Take Photo & Video, One Key Switch Between Main Body Camera & Portable USB Camera					
Handheld Camera	1.3M Digital Camra, Zoom Lens 1.5x~25x, Output to 7" LCD Screen 8 LEDs Light, Brightness Adjustable					
Main Body Camera	2.0M Digital Camera, Zoom Lens 5x~35x, TF Card, USB Output Coaxial LED Ring Light, Brightness Adjustable					
TF Card Output	Support Max 32G, To Take Photo & Video					
USB Output	To Win/Mac, With Professional StrangeView Measuring Software					
Stand	Pole Stand, With Focusing Knob, Size 180x170mm					
Size	180*170*322mm					
Power Supply	DC 5V2A Adapter, Can Be Powered By USB Power Bank For Outdoor Use					
Package	Color Box + Foam, 1 pc/1 Box, With Software Disc, DC Adapter, Instruction Manual					

### A34.4191 USB Digital Microscope

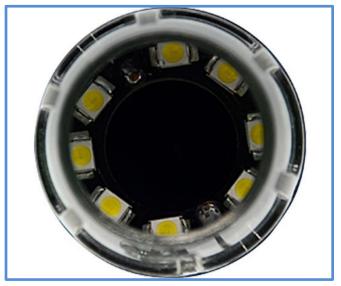






Optical zoom in/out support total magnification 50x-1000x





Built-in 8LEDs lamp auxiliary lighting, uniform light source, soft and not dazzling

	A34.4191 USB Digital Microscope					
Magnification	50x-1000x					
Image Sensor	1/6.5" Color CMOS Image Sensor					
Resolution	640x480, 30Fps					
White Balance	Auto					
Connection	USB2.0					
Illumination	8LEDs, Brightness Adjustable					
USB Support	Win10, Win8, Win7, XP, Mac					
Output	BMP, JPEG					
SNR	Max 42dB					

#### A34.4199 WIFI+USB Miroscope, 1000x, 2.0M, iPad/Android/Win/Mac





Optical zoom in/out support total magnification 50x-1000x





Built-in 8LEDs lamp auxiliary lighting, uniform light source, soft and not dazzling

A34.4199 WIFI Digital Microscope					
Magnification	50x-1000x				
Lens Diameter	8.0mm				
Resolution	640x480, 1920x1080				
Pixel	2.0M				
Battery	3 hours Battery Life				
WIFI Transmission Distance	WIFI 10m Range				
Illumination	8LEDs				
WIFI Support	Android, IOS, USB Support Win, Mac				
Output	MJPEG/AVI				
Color	Black/Grey/Blue (Optional)				

# A59.5102 USB2.0 CMOS Eyepiece Camera, 5.0M, Eyepiece Type





A59.5102+A11.1020

5.0MP, USB Cable, Software Disc, Eyepiece Mount







# A59.5103 USB2.0 CMOS Eyepiece Camera, 5.0M, Eyepiece Type





A59.5103+A11.5121-M

OPTO-EDU

USB2.0 CMOS Eyepiece Camera, 5.0M, C-Mount









### A59.2205-E USB2.0 CMOS Digital Eyepiece Camera





Compact Design Digital Eyepiece Used In Microscope Eyepiece Tube 2.0M Pixels Full HD 1920\*1080 USB2.0 CMOS Sensor USB 2.0 Output To Computer or Laptop, No Need Driver Professional Analysis Software Measure Function For Windows Diameter 23.2mm, With Adapter Ring 30mm, 30.5mm For Using In Eyepiece Tube

A59.2205-E USB2.0 CMO	S Digital Eyepiece Camera
Computer Interface	USB2.0
Microscope Interface	23.2mm
Pixel	200W
Nosepiece	Sextupe Nosepiece
Chip	1/3 APTINA COMS
Voltage	5V
Electric Current	200MA
Transmission Speed	1600X1200 YUY2@15FPS 1280X1024 YUY2@8FPS 800X600 YUY2@30FPS 640X480 YUY2@30FPS 320X240 YUY2@30FPS

	Standard Packing List					
A	Gift Box					
В	CD (Driver & utilities software, Ø8cm)					
С	CMOS USB2.0 C-Mount camera					
D	Dia.23.2mm to 30.5mm Ring Adaptor for 30.5mm eyepiece tube					
E	Dia.23.2mm to 30.0mm Ring Adaptor for 30mm eyepiece tube					
F	USB2.0 Wire					

#### A59.2205 USB2.0 CMOS Digital Eyepiece Camera

OPTO-EDU





Compact Design Digital Eyepiece For Using In Eyepiece Tube 350K ~ 5.0M Pixels USB2.0 CMOS Sensor USB 2.0 Output, With Professional Analysis Software Support WinXP, Win7, Win10, IOS, Linux System Diameter 23.2mm, With Adapter Ring 30mm, 30.5mm For Using In Eyepiece Tube



Item No.	Sensor & Size(mm)	Pixel(µm)	G Sensitivity Dynamic Range SN Ratio	FPS/Resolution	Binning	Exposure		
A59.2205- 5.0MPA	5.0M/Aptina(C) 1/2.5"(5.70x4.28)	2.2x2.2	NA	2@2592x1944 3@2048x1536 5@1600x1200 7.5@1280x1024	N/A	Auto		
A59.2205- 5.0MPB	5.0M/SC5033(C) 1/2.7"(5.18x3.89)	2.0x2.0	2.0V/lux-sec 64dB 35dB	20@2592x1944 20@2048x1536 20@1600x1200 30@800x600	N/A	Auto		
A59.2205- 3.0MPA	3M/Aptina(C) 1/2.7"(4.506x3.38)	2.2x2.2	NA	3@2048x1536 5 @1600x1200 7.5@1280x1024	N/A	Auto		
A59.2205- 2.0MPA	2M/Aptina(C) 1/3.2"(4.48x3.36)	2.8x2.8	NA	5@1600x1200 7.5@1280x1024 7.5@1280x960 20@800x600	N/A	Auto		
A59.2205- 2.0MPB	2M/OV2710(C) 1/2.7"(5.76x3.24)	3x3	3.3V/Lux-sec 69dB 39dB	25@1920x1080 30@1280x1024 30@1280x720	N/A	Auto		
A59.2205- 1.3MPA	1.3M/Aptina(C) 1/3"(4.60x3.70)	3.6x3.6	NA	7.5@1280x1024 12.5@1024x768 12.5@800x600	N/A	Auto		
A59.2205- 920KPA	0.92M/BG0703(C) 1/2.7"(5.76x3.24)	4.5x4.5	5.8V/Lux-sec 65dB 43dB	25@1280x720 25@640x480	N/A	Auto		
A59.2205- 350KPA	0.35M/Aptina(C) 1/4"(3.58x2.69)	5.6x5.6	NA	30@640x480	N/A	Auto		
		OTHER H	ARDWARE CONF	IGURATION				
Spectral Ran	•	380-650nm	(with IR-filter)					
White Balanc		Auto						
	ring Technique	NA						
Capture/Con		Native C/C++, Directshow, Twain						
Recording Sy		Still Picture	and Movie					
Cooling Syste	em^	Natural						
			ERATING ENVIRO	NMENT				
Operating Te	-	-10°C~ 50°C						
Storage Tem	•	-20°C~ 60°C						
Operating Hu		30~80%RH						
Storage Hum	•	10~60%RH DC 5V over PC USB Port						
Power Supply	у							
					04 64			
Operating Sy	stem		rosoft vvindows X OS X), Linux	P / Vista / 7 /8 (32 &	04 DI()			
		•	to Intel Core2 2.8G	GHz or Higher				
		Memory: 2G						
PC Requirem	nents	USB port: USB2.0 High-speed Port						
		Display: 17"or Larger						
		CD-ROM						

### A59.2208 USB2.0 CMOS Digital Camera, C-Mount

OPTO-EDU



USB 2.0 Output, With Professional Analysis Software 350K ~ 14.0M Pixels USB2.0 CMOS Sensor Standard C-Mount For Using In Trinocular Photo Port With Adapter Ring 30mm, 30.5mm For Using In Eyepiece Tube Support WinXP, Win7, Win10, iOS, Linux System



			G Sensitivity				
Item No.	Sensor & Size(mm)	Pixel(µm)	Dynamic Range	FPS/Resolution	Binning	Exposure	
			SN Ratio	4.0.@4000-2000	4.5.4		
A59.2208-14M	14M/MT9F002(C) 1/2.3"(5.73x4.60)	1.4x1.4	0.724v/lux-sec 65.3dB 35.5dB	1.8@4096x3288 10@2048x1644 27@1024x822	1x1 2x2 4x4	0.4ms~2000ms	
A59.2208-10M	10M/MT9J003(C) 1/2.3"(5.98x4.59)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	1.9@3584x2748 8@1792x1374 27@896x684	1x1 2x2 4x4	0.4ms~2000ms	
A59.2208-9.0M	9.0M/Special(C) 1/2.4"(5.83x4.37)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	1.9@3488x2616 8@1744x1308 27@872x654	1x1 2x2 4x4	0.4ms~2000ms	
A59.2208-8.0M	8M/Special(C) 1/2.5"(5.45x4.09)	1.67x1.67	0.31v/lux-sec 65.2dB 34dB	1.9@3264x2448 8@1600x1200 27@800x600	1x1 2x2 4x4	0.4ms~2000ms	
A59.2208-5.1M	5.1M/MT9P006(C) 1/2.5"(5.70x4.28)	2.2x2.2	0.53 V/lux-sec 66.5dB 40.5dB	5@2592x1944 18@1280x960 60@640x480	1x1 2x2 4x4	0.294ms~2000ms	
A59.2208-3.1M	3.1M/MT9T001(C) 1/2"(6.55x4.92)	3.2x3.2	1.0 V/lux-sec 61dB 43dB	8@2048x1536 22@1024x768 43@680x510	1x1 2x2 3x3	0.244ms~2000ms	
A59.2208-2.0M	2.0M/Special(C) 1/2.6"(5.12x3.84)	3.2x3.2	1.0 V/lux-sec 61dB 43dB	16@1600x1200 50@800x600	1x1 2x2	0.244ms~2000ms	
A59.2208-1.3M	1.3M/MT9M111(C) 1/3"(4.60x3.70)	3.6x3.6	1.0V/lux-sec 71dB 44dB	15@1280x1024 26@640x512 50@320x256	1x1 2x2 4x4	0.14ms~2000ms	
A59.2208-350K	0.35M/MT9V011(C) 1/4"(3.58x2.69)	5.6x5.6	1.9V/lux-sec 60dB 45dB	30@640x480 80@320x240	1x1 2x2	0.111ms~192.6ms	
	ОТ	HER HARD	OWARE CONFIG	URATION			
Spectral Range		380-650nm	n (with IR-filter)				
White Balance		ROI White	Balance/ Manua	I Temp-Tint Adjus	stment		
Color Rendering	-		Color Engine				
Capture/Control		Native C/C++, Directshow, Twain Still Picture and Movie					
Recording Syste			e and Movie				
Cooling System*		Natural					
				IENT			
Operating Tempe		-10°C~ 50°C					
Storage Tempera		-20°C~ 60°	-				
Operating Humic	· ·	30~80%RH					
Storage Humidity		10~60%RH					
Power Supply			r PC USB Port				
Operating Syster		· ·		XP / Vista / 7 /8 (	32 & 64	(זוס	
		· ·	OS X), Linux				
PC Requirement		· ·		2.8GHz or Higher			
			GB or More	ad Part			
		USB port: USB2.0 High-speed Port Display: 17"or Larger					
		CD-ROM	UI Laigei				

#### A59.2211 USB3.0 CMOS Digital Camera





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USB 3.0 Output, With Professional Analysis Software 3.1M ~ 18.0M Pixels USB3.0 CMOS Sensor Standard C-Mount For Using In Trinocular Photo Port Support WinXP, Win7, Win10, iOS, Linux System Adapter Ring 30mm, 30.5mm Optional For Using In Eyepiece Tube



	G Sensitivity							
Item No.	Sensor &	Pixel(µm)	Dynamic Range	FPS/Resolution	Binning	Exposure		
	Size(mm)		SN Ratio					
A59.2211-	18M/AR1820(C)		0.62 V/lux-sec	5.6@4912x3684"	1x1			
A59.2211- 18MPA	1/2.3"(6.14x4.61)	1.25x1.25	65.8dB	18.1@2456x1842	2x2	0.1ms~2000ms		
	1/2.3 (0.1474.01)		36.3dB	32.2@1228x922	4x4			
			R:2453LSB	6.0@4648x3506	1x1			
A59.2211-			Gr:2444LSB	15.0@2304x1750	2x2	0.2ms~2000ms		
16MPA	1/2.33" (6.18x4.66)	5	Gb:1054LSB	26.0@1536x1168	3x3	0.21113-20001113		
			B: 996LSB	20.0 @ 1000x1100	0.00			
			R:1315LSB					
A59.2211-	16M/MN34230PLJ		Gr:2413LSB	6.0@4648x3506	1x1			
16MPB	(C)	3.8x3.8	Gb:2413LSB	15.0@2304x1750	2x2	0.06ms~15s		
_	4/3" (17.6x13.3)		B:1042LSB	30.0@1536x1168	3x3			
			(Gain = 0dB)	00 @ 40 40.0500				
	1004/040000		A:2650LSB	22@4640x3506	11			
A59.2211-	16M/MN34230ALJ (M)		B:2650LSB	36@3840x2160	1x1 2x2	0.24ms~15s		
16MMB	( <sup>101)</sup> 4/3" (17.6x13.3)	3.8x3.8	C:2650LSB D:2650LSB	43@2304x1750 43@1920x1080	2x2 3x3	0.24ms~15s		
	4/3 (17.0x13.3)		(Gain=0dB)	43@1920x1080 49@1536x1168	323			
			0.724v/lux-sec	6.2@4096x3286	1x1			
A59.2211-	14M/MT9F002(C)	1.4x1.4	65.3dB	20.8@2048x1644	2x2	0.4ms~2000ms		
14MPA	1/2.3"(5.73x4.60)	1.471.4	35.5dB	53.3@1024x822	2x2 4x4	0.41113~20001113		
			0.31v/lux-sec		1x1			
A59.2211-	10M/MT9J003(C)	1.67x1.67	65.2dB	7.2@3584x2746	2x2	0.38ms~2000ms		
10MPA	1/2.3"(5.98x4.58)	1.07 X 1.07	34dB	24.5@1792x1372	4x4			
			0.4v/lux-sec		1x1			
A59.2211-	10M/MT9J003(M)	1.67x1.67	65.2dB	7.2@3584x2746	2x2	0.38ms~2000ms		
10MMA	1/2.3"(5.98x4.58)		34dB	24.5@1792x1372	4x4			
			0.31v/lux-sec	0.0@000000540	1x1			
A59.2211-	8.5M/Special(C)	1.67x1.67	65.2dB	8.3@3328x2548	2x2	0.1ms~2000ms		
8.5MPA	1/2.5"(5.56x4.26)		34dB	26.2@1664x1272	4x4			
A59.2211-	5.1M/MT9P006(C)		1.76v/lux-sec	14.2@2560x1922	1x1			
A59.2211- 5.1MPA	1/2.5"(5.70x4.28)	2.2x2.2	67.74dB	38.3@1280x960	2x2	0.1ms~2000ms		
5. TMFA	1/2.5 (5.70x4.20)		38.5dB	101.2@640x480	4x4			
A59.2211-	3.1M/AR0330(C)		1.9v/lux-sec	27.3@2048x1534	1x1			
3.1MPA	1/3"(4.51x3.38)	2.2x2.2	100dB	53.3@1024x770	2x2	0.1ms~2000ms		
5. HVII 7.	1/0 (4.01x0.00)		39dB					
			HARDWARE CONI	FIGURATION				
Spectral Rai	-		(with IR-filter)	Tint A dia tan				
White Balan				emp-Tint Adjustmer	It			
	ering Technique		Color Engine					
Capture/Cor Recording S			++, C#, Directshow, and Movie	, I WAIII, LADVIEW				
Cooling Sys		Natural						
Cooling Sys			ERATING ENVIRO					
Operating To	emperature							
Storage Ten	•	-10°C~ 50°C						
Operating H	•	-20°C~ 60°C 30~80%RH						
Storage Hur		10~60%RH						
Power Supp	-		r PC USB Port					
	• 7	1	FTWARE ENVIRO					
		1		(P / Vista / 7 /8 /10(	32 & 64 h	it)		
Operating S	ystem	- · ·	OS X), Linux			/		
			I to Intel Core2 2.80	GHz or Hiaher				
PC Requirer	ments	Memory: 2GB or More USB port: USB2.0 High-speed Port						
		Display: 17"or Larger						
		CD-ROM						

#### A59.2213 USB3.0 CMOS Digital Camera, High Fps





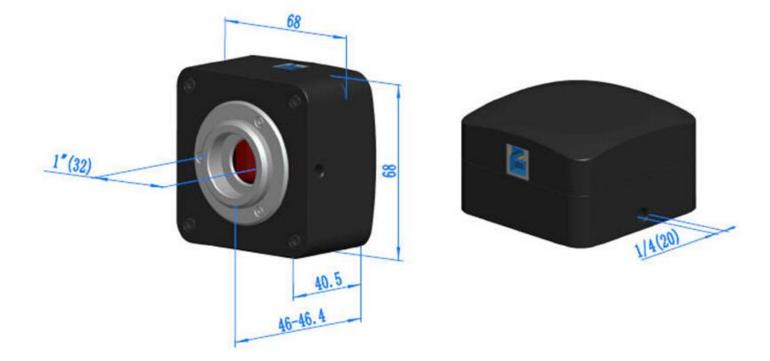
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## **Product Size**



Model	Senser Size	Pixel	FPS	Exposure Time
20M	20M/IMX183(C) 1 "(13.06x8.76)	2.4 x2.4	15@5440x3648 50@2736x1824 60@1824x1216	0.1ms~15s
12.3M	12.3M/IMX304(C,GS) 1.1"(14.13x10.35)	3.45x3.45	23.4@4096x3000 46.3@2048x1500	0.244ms~15s
12M	12M/IMX226(C) 1/1.7"(7.40x5.55)	1.85x1.85	25@4000x3000 50@2048x1080	0.1ms~15s
ЭM	9.0M/IMX305(C,GS) 1" (14.13x7.45)	3.45x3.45	34@4096x2160 60@2048x1080	0.1ms~15s
8.3MA	8.3M/IMX274(C) 1/2.5"(6.22x3.50)	1.62x1.62	32@3840x2160 65@1920x1080	0.244ms~15s
8.3MB	8.3M/IMX334(C) 1/1.8"(7.68x4.32)	2.0x2.0	35@3840x2160 60@1920x1080	0.105ms~15s
6.3MA	6.3M/IMX178(C) 1/1.8"(7.37x4.92)	2.4 x2.4	30@3072 x2048 38@1536x 1024	0.1ms~15s
6.3MB	6.3M/IMX178(C) 1/1.8"(7.37x4.92)	2.4 x2.4	59@3072 x2048 59@1536x 1024	0.02ms~15s
5M	5.0M/IMX264(C, GS) 2/3"(8.45x7.07)	3.45x3.45	35@2448x2048 50@1224x1024	0.1ms~15s
3.1MA	3.1M/IMX265(Ć, GS) 1/1.8"(7.07x5.30)	3.45x3.45	53@2048x1536 85@1024x768	0.1ms~15s
3.1MB	3.1M/IMX123(C) 1/2.8"(5.12x3.84)	2.5x2.5	50@2048x1536 50@1920x1080	0.1ms~15s
2M	2M/IMX385(C) 1/2"(7.2x4.05)	3.75x3.75	125@1920x1080	0.1ms~15s
1.5M	1.5M/IMX273(C, GS) 1/2.9"(4.968x3.726)	3.45x3.45	164@1440x1080 320@720x540	0.1ms~15s

### A59.2223 WIFI+HDMI Digital Camera, 1080p, USB Mouse

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OPTO-EDU





	1080P/5M/	1080P/2M/	1080P/2M/		
Sensor & Size	Sony	Sony IMX185©	1/1.9"(7.20x4.05)		
Sensor & Size	IMX178©1/1.8"(6.22x4.67)	1/1.9"(7.20x4.05)	1/1.2"(11.25x6.33)		
Pixel(µm)	2.4x2.4	3.75x3.75	5.86x5.86		
G Sensitivity		425 mv with 1/30s 1120 mv with 1/30s 1016 mv with 1/30s			
Dark Signal	0.15 mv with 1/30s 0.15 mv with 1/30s 0.15 mv with 1/30s				
Dark Signai	60@1920x1080	60@1920x1080	60@1920x1080		
FPS/Resolution	(HDMI)	(HDMI)	(HDMI)		
	25@1920x1080	25@1920x1080	25@1920x1080		
Dinning	(WIFI) 1x1	(WIFI)	(WIFI) 1x1		
Binning	0.03ms~918ms	1x1 0.06ms~918ms	0.043ms~1000ms		
Exposure		Button Functions	0.0431115~10001115		
USB	USB Camera or USB Mouse				
HDMI	HDMI Output				
DC12V	12V Power in				
SD	SD Card Slot				
ON/OFF	Power On/Off Switch				
LED	Power On Indicator				
LED					
LIL On exetien	With USB Mouse	ion for HDMI Output			
UI Operation		tion in OD Oand			
Image Capture	JPEG Format with 5M Resolu JPEG Format with 2M Resolu				
Video Record	ASF Format 1080P 30fps in S				
Camera Control Panel	Including Exposure, Gain, Wh				
Camera Control Parler	Adjustment, Sharpness and D				
Toolbar		-			
TOUDAI	Including Zoom, Mirror, Comp Cross, Browser Function	anson, Freeze,			
		tion for WIEL Output			
LIL Operation	With USB Mouse to Operate of	tion for WIFI Output			
UI Operation WIFI Performance					
Maximum Connected	802.11n 150Mbps; RF Power	· · · ·			
Devices	3~6(According to the Environ	ment and Connection Distance	;e)		
White Balance	Auto White Balance				
Color Technique	Ultra-Fine Color Engine (WIFI Standard SDK for Windows/L				
Capture/Control API					
Recording System	Still Picture or Movie (WIFI)				
On a national Oceatance		t (for USB2.0 Connection)			
Operating System	Microsoft® Windows® XP /Vis	sta / 7/8/8.1/10(32 & 64 bit)			
	OSx(Mac OS X)				
	Linux				
PC Requirements	CPU: Equal to Intel Core2 2.8	GHZ or Higher			
	Memory: 4GB or More				
	USB Port: USB2.0 High-spee	d Port			
	Display: 19" or Larger				
	CD-ROM				
		Environment			
	-10~50(in Centidegree)				
Storage Temperature	-20~60(in Centidegree)				
Operating Humidity	30~80%RH				
Storage Humidity	10~60%RH				
Power Supply DC 12V/2A Adaptor					
		Dimensions			
	78 mm (3.07") x 70 mm (2.76'	') x 92mm (3.62")			
Shipping Weight	0.47 kg (1.0lbs)				

# A59.2225

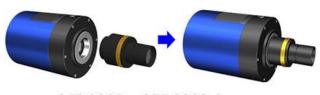
OPTO-EDU

**USB3.0 CMOS Cooled Digital Camera, Fluorescent Use** 

USB 3.0 Output, 10.3M To 20.0M Resolution With Professional Analysis Software Two-stage TE-cooling System -45°C below Camera Body Temperature Low Light Source Fluorescent, DIC View, 1 Hour Exposure External Power Adapter for Cooling System, DC12V,3A Support Microsoft Windows XP / Vista / 7 /8 /10(32 & 64 bit)

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A59.2225 + A55.2202-A



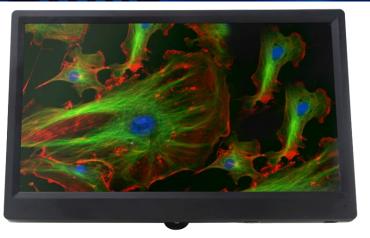
#### A59.2225 + A55.2202-F

Item No.	Sensor &	Pixel(µm)	G Sensitivity	FPS/Resolution	Binnina	Exposure	
	Size(mm)		Dark Signal				
A59.2225- 20MPA	20M/IMX183(C) 1"(13.06x8.76)	2.4x2.4	462mv with 1/30s 0.21mv with 1/30s	5@5440x3648 10@4096x2160 15@2736x1824 30@1824 x1216	1x1, 2x2, 3x3	0.1ms~3600s	
A59.2225- 20MMA	20M/IMX183(M) 1"(13.06x8.76)	2.4x2.4	388mv with 1/30s 0.21mv with 1/30s	17.8@5440x3648 41@4096x2160 51@2736x1824 64@1824 x1216	1x1, 2x2, 3x3	0.1ms~3600s	
A59.2225- 16MPA	16M/MN34230(C) 4/3"(17.60x13.30)	3.8x3.8	2413LSB 89.1LSB (Gain=0dB)	6@4648x3506 20@2304x1750 48@1536x1168	1x1, 2x2, 3x3	0.15ms~3600s	
A59.2225- 16MMA	16M/MN34230(M) 4/3"(17.60x13.30)	3.8x3.85	2560LSB 89.1 LSB (Gain=0dB)	22.5@4648x3506 43@2304x1750 48@1536x1168	1x1, 2x2, 3x3	0.15ms~3600s	
A59.2225- 10.3MA	10.3M/IMX294(C) 4/3"(17.47x12.86)	4.63x4.63	419mv with 1/30s 0.12mv with 1/30s	7.5@3704x2778 8.5@4096x2160 30@2048x1080 60@1360x720	1x1, 2x2, 3x3	0.15ms~3600s	
		OTHER HAR	DWARE CONFIGUR	RATION			
Spectral Ra		380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used					
White Balan		ROI White Balance/ Manual Temp-Tint Adjustment					
	ering Technique	Ultra Fine Color Engine					
Capture/Co		Native C/C++, C#, Directshow, Twain, Labview					
Recording S	-	Still Picture and Movie					
Cooling Sys	stem"	Two-stage TE-cooling System -45 °C below Camera Body Temperature OPERATING ENVIRONMENT					
				NI			
Operating T		-10°C~ 50°C					
Storage Ter		-20°C~ 60°C 30~80%RH					
Operating Humidity Storage Humidity		10~60%RH					
Power Supply		DC 5V over PC USB Port					
		External Power Adapter for Cooling System, DC12V,3A					
SOFTWARE ENVIRONMENT							
Operating System		Support Microsoft Windows XP / Vista / 7 /8 /10(32 & 64 bit)					
DC Dequirements		OS X (Mac OS X), Linux					
PC Requirements		CPU: Equal to Intel Core2 2.8GHz or Higher					
			Memory: 2GB or More USB port: USB2.0 High-speed Port				
			Display: 17"or Larger				
		CD-ROM					
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#### A59.2259 11.6" HDMI Monitor







11.6" Panasonic IPS LCD, 1920x1080P Contrast 1000:1 Designed For A59.2220, A59.2221, A59.2222 Series HDMI Camera

Item No.	Active Area(Inch)	Video Fomat	Resolution	Contrast	Color(Million)	View Angle	
A59.2259	11.6	HDMI	1080P	1000:01:00	16.7	IPS Full View	
		BASI	C PERFORMA	NCE			
LCD Panel		Panasonic IPS LCD Screen(Super TFT)					
Input Video Form	nat	HDMI					
Native Resolution	n	1920 x 1080					
Display Type		16:9 Ratio 11.6	Inch Active Mat	rix Super TFT L	CD		
Typical Contrast	Ratio	1000:01:00					
Colors		16.7 Million					
Viewing Angle(L/	/R/U/D)	IPS Full Vew					
Active Display A	rea	258mm(W) × 145mm(H)					
Pixel Pitch		0.134(W) X 0.134(H) mm					
Brightness		350 cd/ sq.m ;400cd sq.m / Optional					
Backlight		LED Backlight, 5000 hours					
	OUTLINE PARAMETER						
Color		Black					
Dimension		281(L)*179(H)*15.6(W) mm					
Weight		400g					
		OPERA	TING ENVIRON	IMENT			
Operating Tempe	erature	-15 Degree~55 Degree					
Humidity Non Condensing		Operating:10%-90%, Storage: 5%-90%					
Synchronization Range		30-80 KHz Horizontal, 55-75 Hz Vertical					
Power Supply		AC110V-220V /DC12V(1A )					
Power Consumption		Max 12W					

#### A59.2240 Auto Focus HDMI+WiFi+SD Camera, Mouse Control

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OPTO-EDU

All-in-1 HDMI+WIFI+SD Card C-Mount Camera Auto/Manual Focus With The Movement of The Sensor Built-in Mouse Control Menu On HDMI Interface High Sensitivity CMOS Sensor, Ultra-Fine Color Engine, Perfect Color Reproduction Support Standard SDK For Windows/Linux/Mac (USB)

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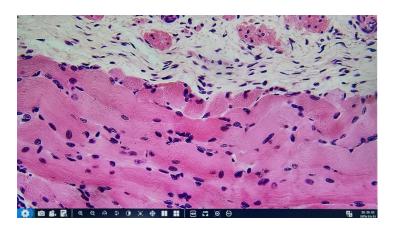


Kom No	AE0 2240 EM	A50 2240 2M		
Item No.	A59.2240-5M	A59.2240-2M		
	1080P/5M/	1080P/2M/		
Sensor & Size	Sony IMX178(C)	Sony IMX185(C)		
Dival(um)	1/1.8"(6.22x4.67)	1/1.9"(7.20x4.05)		
Pixel(µm)	2.4x2.4 425 mv with 1/30s	3.75x3.75 1120 mv with 1/30s		
G Sensitivity Dark Signal	0.15 mv with 1/30s	0.15 mv with 1/30s		
Dark Signal	60@1920x1080	60@1920x1080		
	(HDMI)	(HDMI)		
FPS/Resolution	25@1920x1080	25@1920x1080		
	(WIFI)	(WIFI		
Binning	1x1	1x1		
Exposure	0.03ms~918ms	0.06ms~918ms		
	Interface & Button Functions			
USB	USB Camera or USB Mouse			
HDMI	HDMI Output			
DC12V	12V Power in			
SD	SD Card Slot			
ON/OFF	Power On/Off Switch			
LED	Power On Indicator			
	Other Specification for HDMI Out	tput		
UI Operation	With USB Mouse			
Image Capture	JPEG Format with 5M Resolution in SD (	Card(XFCAM1080PHB)		
	JPEG Format with 2M Resolution in SD (	Card(XFCAM1080PHD)		
Video Record	ASF Format 1080P 30fps in SD Card	· · · · · · · · · · · · · · · · · · ·		
Camera Control Panel	Including Exposure, Gain, White Balance, Color			
	Adjustment, Sharpness and Denoising Control			
Toolbar	Including Zoom, Mirror, Comparison, Freeze,			
	Cross, Browser Function			
	Other Specification for WIFI Out	put		
UI Operation	With USB Mouse to Operate on the emb			
WIFI Performance	802.11n 150Mbps; RF Power 20dBm(Ma			
	3~6(According to the Environment and C	,		
White Balance	Auto White Balance			
Color Technique	Ultra-Fine Color Engine (WIFI)			
Capture/Control API	Standard SDK for Windows/Linux/Mac(W			
Recording System	Still Picture or Movie (WIFI)	//F1)		
Recording System				
On exetting Counterer	Software Environment (for USB2.0 Co			
Operating System	Microsoft® Windows® XP /Vista /7/8/8.1/	10(32 & 64 DIL)		
	OSx(Mac OS X) Linux			
PC Requirements		her		
r o Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 4GB or More			
	USB Port: USB2.0 High-speed Port			
	Display: 19" or Larger			
	CD-ROM			
	Operating Environment			
Operating Temperature	-10~50(in Centidegree)			
Storage Temperature	-20~60(in Centidegree)			
Operating Humidity	30~80%RH			
Storage Humidity	10~60%RH			
Power Supply	• •			
	Overall Dimensions			
Width x Depth x Height	78 mm (3.07") x 70 mm (2.76") x 92mm (	3.62")		
Shipping Weight	0.47 kg (1.0lbs)			

# A59.3507

HDMI+Type-C, Mouse Control Measuring Digital Camera, 2.0M







HDMI + Type C UVC + USB2.0 To U Disk Image Output Picture & Video 2.0M Full HD Resolution 1920\*1080@60FPS For HDMI & USB Output UVC Real Time Image Output To PC With S-Eye Measure Software USB2.0 Mouse Control Menu On HDMI Interface Menu With Measure Function Type C DC5V/2A Power Supply By Adapter or Power Bank

Items	A59.3507 HDMI+Type-C, Digital Camera, 2.0M
Sensor	Sony IMX307, 1/2.8" CMOS
Pixel size	2.9µm*2.9µm
Resolution	2.0M
FPS	Photo 1920*1080@60FPS, Video 1920*1080@30FPS
Exposure	Exposure Time 0-33MS, Auto/Manual Adjust, Support Target Brightness Setup
White Balance	Auto/Manual
Parameter	Set Contrast, Saturation, Gamma, Sharpness, Noise Reduction, Etc
Output	HDMI+Type-C
HDMI	Full HD 1080p@60FPS HDMI Output To Monitor, Control By USB2.0 Mouse: Move Mouse To Left & Bottom Edge Of HDMI Screen To Call Up The HDMI MAIN MENU & QUICK MENU, To Capture Photo, Video, Measure, Setting.
USB	1xUSB Connect To Mouse, 1xUSB Connect To U Disk To Store Photo & Video
Туре С	Output From Type C Port To PC USB Port, S-Eye Measure Softwer For Win10 S-EYE Measure Software: Length: Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point Line Distance, Line Length Geometry: Radius Circle, Two-point Circle, Three-point Circle, Concentric Circle, Radius Circle, Two- point Circle, Three-point Circle Geometric Area:Polygon, Square Remark: Point Coordinates, Crosshairs, Coordinate Systems, Text Notes
Language	Support Chinese, English, Deutsch, France, Janpanese
Power	Type C DC 12V/2A
Packago	Size Ф60x44.5mm
Package	Weight 0.2Kg

### A59.3508

WIFI+HDMI+Type-C+WAN, Digital Camera, 8.0M Mouse Control Measuring Digital Camera, 8.0M







WIFI+ HDMI + Type C UVC + WAN Image Output Picture & Video 8.0M Full HD Resolution 1920\*1080@60FPS For HDMI & USB Output UVC Real Time Image Output To PC With S-Eye Measure Software USB2.0 Mouse Control Menu On HDMI Interface Menu With Measure Function Type C DC5V/2A Power Supply By Adapter or Power Bank

Items	A59.3508 WIFI+HDMI+Type-C+WAN, Digital Camera, 8.0M
Sensor	Sony IMX334, 1/1.8" CMOS
Pixel size	2.0µm*2.0µm
Resolution	8.0M
FPS	Photo 1920*1080@60FPS, Video 1920*1080@30FPS
Exposure	Exposure Time 0-33MS, Auto/Manual Adjust, Support Target Brightness Setup
White Balance	Auto/Manual
Parameter	Set Contrast, Saturation, Gamma, Sharpness, Noise Reduction, Etc
Output	WIFI+HDMI+Type-C+WAN
WIFI	WIFI Output Youngwin OS, Support Lo
HDMI	Full HD 1080p@60FPS HDMI Output To Monitor, Control By USB2.0 Mouse: Move Mouse To Left & Bottom Edge Of HDMI Screen To Call Up The HDMI MAIN MENU & QUICK MENU, To Capture Photo, Video, Measure, Setting.
USB	1xUSB Connect To Mouse, 1xUSB Connect To U Disk To Store Photo & Video
Туре-С	Output From Type C Port To PC USB Port, S-Eye Measure Softwer For Win10 S-EYE Measure Software: Length: Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point Line Distance, Line Length Geometry: Radius Circle, Two-point Circle, Three-point Circle, Concentric Circle, Radius Circle, Two-point Circle, Three-point Circle Geometric Area:Polygon, Square Remark: Point Coordinates, Crosshairs, Coordinate Systems, Text Notes
WAN	Output To Ethernet
Language	Support Chinese, English, Deutsch, France, Janpanese
Power	Type C DC 12V/2A
Package	Size 85*65*49mm Weight 0.2Kg

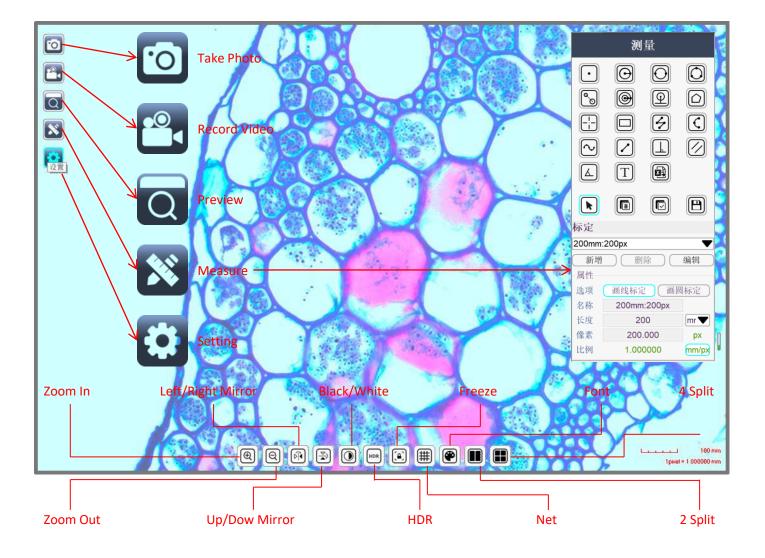
#### A59.3509 9" LCD Digital Camera, USB2.0 +Mouse Measure, 5.0M

#### OPTO-EDU

9" LCD Screen High Resolution 1024\*600 Pixels 5.0M Digital Camera 1/2.8" CMOS Sony Sensor USB2.0 Real Time Image Output + TF Card Storage USB Mouse Control Menu For Measure Function DC12V/2A, 100~240V Power Adapter



WHITE A



Items	A59.3509 9" LCD Digital Camera, USB+Mouse Measure, 5.0M	
Sensor	1/2.8" Sony Star Light Level CMOS Sensor	
Resolution	5.0M CMOS	
LCD Screen	" LCD, Resolution 1024x600 High Clearance Screen	
Output	JSB 2.0 Type-A, TF Card	
Pixel Size	0x2.0um	
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC	
	Photo, Video, Meaure, Compare	
	USB 2.0 To Win 7, Win10 System, Software S-Eye Included	
	Brightness, Contrast, Exposure, White Balance Adjustable	
Function	10x Digital Zoom, 4 Split/ 2 Split Windows Image Compae	
	Storage To TF Card	
	Cross Line With Scale, Calibrated	
	Net Line 8 Kinds, Width & Color Adjustable	
Size / Weight	Product Size 225x52x175mm, Net Weight 0.7Kg	
Standard Package	LCD Camera, USB 2.0 Cable, Mouse, DC12V Power Adapter	
USB Mouse Measure Operation	<ol> <li>Insert the mouse into the camera Type-A USB 2.0 port, connect 12V power supply to camera.</li> <li>Turn on the power switch, when the camera is running, the LED light turns blue</li> <li>Move the mouse to the top left corner of the screen to call up the MAIN MENU, including icon : Take Photo, Record Video, Preview, Measure, Setting.</li> <li>Move the mouse to the middle position at the bottom of the screen to call up the QUICK MENU, including icon: Zoom In, Zoom Out, Up/Dow Mirror, Left/Right Mirror, Black/White, HDR, Freeze, Net, Font, 2 Split, 4 Split</li> <li>Click the MEASURE icon to pop up the measure window, which support over 20 kinds of measurement graphics.</li> <li>Click the EDIT button and fill in the name to of new ruler to CALIBRATE. Move the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps.</li> <li>Click mm/PX to open or close the screen scale.</li> </ol>	
	<ul> <li>8. If the USB port is directly connected to the computer, the screen and the computer can be displayed synchronously (the USB cable must be connected to the computer before the device is powered on)</li> <li>9. S-EYE Measure Software: Length: Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point Line Distance, Line Length Geometry: Radius Circle, Two-point Circle, Three-point Circle, Concentric Circle, Radius Circle, Two-point Circle, Three-point Circle Geometric Area:Polygon, Square Remark: Point Coordinates, Crosshairs, Coordinate Systems, Text Notes</li> </ul>	

### A59.3520 9.7' Android Pad Digital Camera, 5.0M

#### OPTO-EDU

9.7" LCD, High Resolution 2048\*1536 Pixels
5.0M 1/2.5" CMOS Digital Camera Built-in
Android 5.1, CPU 4 Core 1.8G, RAM 2G ROM 8G
HDMI+TF Card Output, Touch Screen USB Mouse Control
Installed Measure Software, Chinese/English Manual

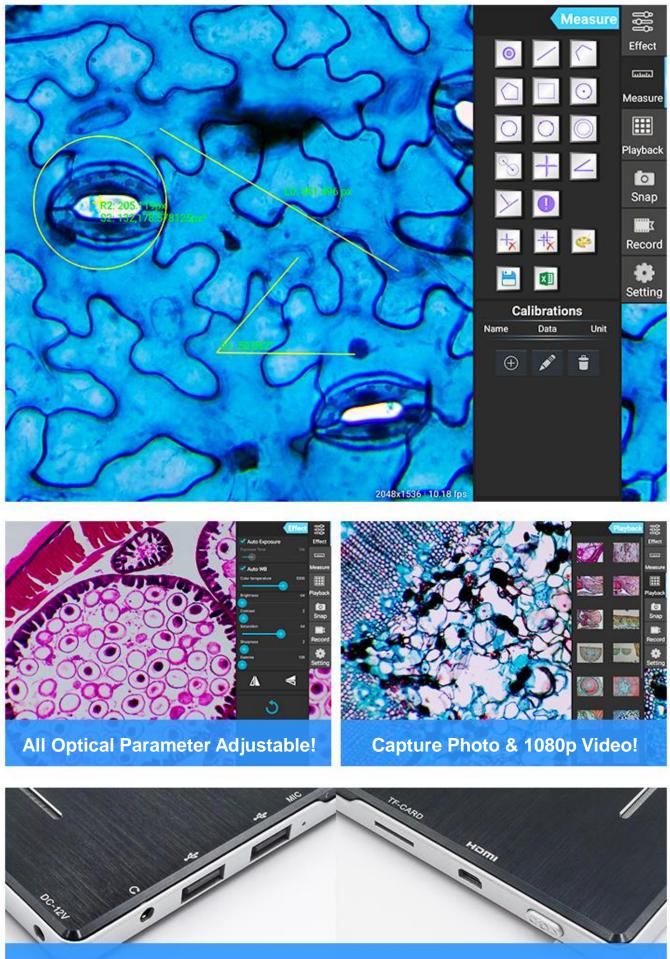


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	A59.3520 9.7" LCD Pad Digital Camera
LCD	9.7" HD IPS Touch Screen With Backlight
Camera	5.0M 1/2.5" CMOS Digital Camera
Resolution	2048x1536 @15FPS
Pixel	2.2umx2.2um
Data Storage	TF Card or Built-in Memory
Data Output	USB2.0, HDMI, TF Card
Photo	5.0M .JPEG
Video	1080p Video Record
	Android 5.1 System
	90 Languages
System	Support Mouse + Keyboard Control
	Support WIFI
	Support Bluetooth
	S-Eye Software & Instruction Manual Installed
	Mark:
	Point, Crosshair, Coordinate, Text
	Length Measure:
	Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point To Line Distance
Function	Distance Between 2 Circle Centers:
	Radius Fixed Circle, Two-point Fixed Circle, Three-point Fixed Circle
	Geometric Measure:
	Line Segment Length, Radius Fixed Circle, Two-point Fixed Circle, Three-point
	Fixed Circle, Concentric Circle
	<b>Geometric Area Measure:</b> Polygon, Square
Power	DC 12V/2A Power Adaptor, AC 100~240V
Size	Pad 238x182x12mm, Camera 40x39mm
Package	Packing Box 10x24x29cm, 0.6Kg, 1 pc/Box
i achaye	1 aunity Dux 10x24x23011, 0.01(y, 1 p0/D0x

#### **Measuring Software Included**

Touch Screen | Full Range Measure | 90 Languages

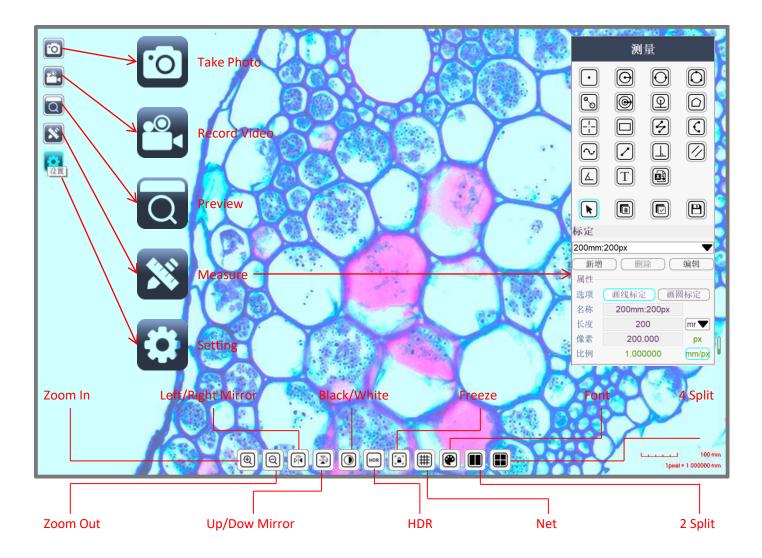


**USB / HDMI / TF Card** 

### A59.3550 11.6" LCD Digital Camera, HDMI+Mouse Measure, 5.0M

#### OPTO-EDU

11.6" LCD Screen High Resolution 1920\*1080 Pixels 5.0M Digital Camera 1/2.8" CMOS Sony Sensor HDMI Real Time Image Output + USB Hard Disk Storage USB Mouse Control Menu For Measure Function DC12V/2A, 100~240V Power Adapter



Items	A59.3550 11.6" LCD Digital Camera, HDMI+Mouse Measure, 5.0M	
Sensor	1/2.8" Sony Star Light Level CMOS Sensor	
Resolution	5.0M CMOS	
LCD Screen	11.6" LCD, Resolution 1920x1080p High Clearance Screen	
Output	HDMI, USB Hard Disk	
Pixel Size	2.0x2.0um	
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC	
	Photo, Video, Meaure, Compare	
	Support USB Mouse Control To Capture Photo, Video, Measure, Setting	
Function	Brightness, Contrast, Exposure, White Balance Adjustable	
	Storage USB 2.0 Hard Disk	
	Net Line 8 Kinds, Width & Color Adjustable	
Size / Weight	Product Size 268x165x83mm, Net Weight 1.0kg	
Standard Package	LCD Camera, DC12V Power Adapter	
<b>USB Mouse Control</b> Operation Manual	<ol> <li>Insert the mouse into the camera Type-A USB 2.0 port, connect 12V power supply to camera.</li> <li>Turn on the power switch, when the camera is running, the LED light turns blue</li> <li>Move the mouse to the top left corner of the screen to call up the MAIN MENU, including icon : Take Photo, Record Video, Preview, Measure, Setting.</li> <li>Move the mouse to the middle position at the bottom of the screen to call up the QUICK MENU, including icon: Zoom In, Zoom Out, Up/Dow Mirror, Left/Right Mirror, Black/White, HDR, Freeze, Net, Font, 2 Split, 4 Split</li> <li>Click the MEASURE icon to pop up the measure window, which support over 20 kinds of measurement graphics.</li> <li>Click the EDIT button and fill in the name to of new ruler to CALIBRATE. Move the mouse to the corresponding standard scale in the image display window and draw a standard length scale line. Then fill in the length column and click SAVE to complete the calibration setting. If you want to add more ruler, just repeat above steps.</li> <li>Click mm/PX to open or close the screen scale.</li> </ol>	



# A59.3551 11.6" Win10 Tablet Digital Camera, 5.0M



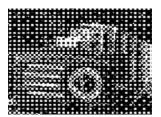


11.6" LCD Resolution 1920\*1080 Win10 Tablet 64 Bits
16M Digital Camera 1/2.3" CMOS Sony Sensor
2.4G/5G WIFI, Bluetooth, USB3.0, HDMI, Ethernet Port
S-EYE Measure Software Installed
Type C Power Supply DC12V/2A Adapter



Items	A59.3551 11.6" Win10 Tablet Digital Camera, 5.0M	
Sensor	1/2.3" Sony CMOS Sensor	
Resolution	16M CMOS	
LCD Screen	11.6" LCD, Resolution 1920x1080p IPS Screen	
CPU	Inter J4105	
System	Win10 64Bits	
WIFI	2.4G/5G WIFI, 802.11a/b/g/n/ac	
Bluetooth	Bluetooth 4.2	
Output	USB3.0, HDMI, WIFI, Ethernet, Type-C Power Supply	
Pixel Size	1.335x1.335um	
Power Supply	DC 12V/2A Power Adapter, Input 100-240V AC	
	Photo 16M, Video 1080p Full HD	
Function	Adjust: Brightness, Contrast, Saturation, White Balance, Exposure, Flicker Suppression, Sharpness, Gamma, CB/Cr Gain	
	UI Interface: Mouse Control, Touch Screen	
	Storage Photo, Video, Preview, SD Card Format	
Windows Measure	S-EYE Measure Software: Length: Straight Line Length, Broken Line Length, Curve Length, Parallel Line Distance, Point Line Distance, Line Length Geometry: Radius Circle, Two-point Circle, Three-point Circle, Concentric Circle, Radius Circle, Two-point Circle, Three-point Circle Geometric Area:Polygon, Square Remark: Point Coordinates, Crosshairs, Coordinate Systems, Text Notes	
Size / Weight	Product Size 285x177x12.5mm, Net Weight 0.9kg	
Standard Package	LCD Camera, DC12V Power Adapter	
Quick Manual	<ol> <li>First, connect the product to Type-C DC-12V power supply</li> <li>After connecting the power supply, press the power on button, and the blue light of the product will always be on.</li> <li>Double click the S-EYE Measure Software on the desktop of Window 10</li> <li>Click "Open Video Source" in S-EYE software, and choose camera YW1600</li> <li>Measure and adjust as you need</li> </ol>	
	6. Measure and adjust as you need.	









# A59.4231 HDMI+USB+TF Digital Camera, 38.0M, USB Measure





38M 1/2.3" CMOS Panasonic Sensor, Pixel Size 1.335x1.335µm Output HDMI(Type A), USB(Type B),TF Card Photo Resolution 38M, Video Resolution 2K@30fps USB2.0 Output (No Driver Need) At Same Time With Measuring Software, Cross Line 2 Lines With Scale, Sharpness, Contrast, Saturation Adjustable.

	A59.4231 2K HDMI Digital Camera, 60M
Sensor	1/2.3" Panasonic CMOS
Pixel Size	1.335µm × 1.335µm
Output	HDMI(Type A), USB(Type B), TF Card Output To USB + HDMI At Same Time
HDMI Photo Resolution	60MP (4:3), Default 38MP (4:3), Capture To TF Card
HDMI Video Resolution	2K@30FPS, 1080p@60FPS, Capture To TF Card
HDMI Control	Quick Control Buttons On Camera & IR Remote Controller HDMI Interface Menu Support English/Chinese
HDMI Photo Scale	Support 4:3, 16:9
USB Output	1920*1080@30FPS 2.0M 1280*720@30FPS, 1024*768@30FPS 640*480@30FPS (Driver Free)
TF Card	16G TF Card Included, Support Max 64GB
Exposure	Auto/Manual Adjustable
White Balance	Auto/Manual Adjustable
Color	RGB Adjustable Separtely
Cross Line	8 Lines, Color, Width, Position Adjustable; 2 Lines With Scale 2 Lines With Dot, Color, Width, Position Adjustable;
Menu	Sharpness, Contrast, Saturation Adjustable
Mono Negative	Support

Mirror Image	Support Horizontal & Vertical Mirror	
Language	Chinese/English	
Digital Zoom	Support	
IR Remote Controller	Remote Control To Take Photo, Video, Set Menu	
Input	DC 12V (Support 5-19V), 55-21mm Socket	
Power Consumption	Max 0.15W (12V,0.12A)	
Adapter	C/CS Mount	
Product Size	74*74*35mm	
Product Weight	150g	
Package Size	160*100*80mm	
Package Weight	450g	
Packaging list	Camera/Adapter/Remoter/USB Cable/HDMI Cable/ 16G TF Card/Instruction Manual	

# A59.4235 HDMI+USB+TF Digital Camera, 60M, USB Measure

#### OPTO-EDU

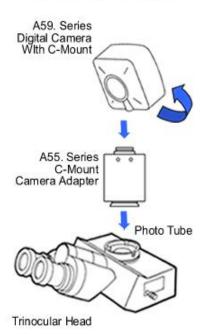




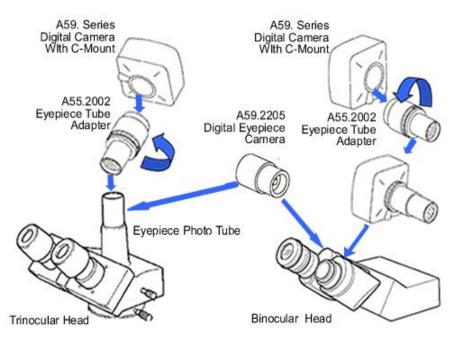


#### **How Camera Connect To Microscope**

1. To Trinocular Microscope On Straight Photo Tube



- 2. To Trinocular Microscope On Eyepiece Photo Tube
- 3. To Binocular Microscope On Eyepiece Tube



	A59.4235 2K HDMI Digital Camera, 60M		
Sensor	1/2.3" Panasonic CMOS		
Pixel Size	1.335µm × 1.335µm		
Output	HDMI(Type A), USB(Type B), TF Card		
Output	Output To USB + HDMI At Same Time		
HDMI Photo Resolution	60MP (4:3), Default 38MP (4:3), Capture To TF Card		
HDMI Video Resolution	2K@30FPS, 1080p@60FPS, Capture To TF Card		
HDMI Control	Quick Control Buttons On Camera & IR Remote Controller		
	HDMI Interface Menu Support English/Chinese		
HDMI Photo Scale	Support 4:3, 16:9		
	1920*1080@30FPS 2.0M		
USB Output	1280*720@30FPS,		
COD Calpar	1024*768@30FPS		
	640*480@30FPS		
	(Driver Free)		
TF Card	16G TF Card Included, Support Max 64GB		
Exposure	Auto/Manual Adjustable		
White Balance	Auto/Manual Adjustable		
Color	RGB Adjustable Separtely		
	8 Lines, Color, Width, Position Adjustable;		
Cross Line	2 Lines With Scale		
	2 Lines With Dot, Color, Width, Position Adjustable;		
Menu	Sharpness, Contrast, Saturation Adjustable		
Mono Negative	Support		
Mirror Image	Support Horizontal & Vertical Mirror		
Language	Chinese/English		
Digital Zoom	Support		
IR Remote Controller	Remote Control To Take Photo, Video, Set Menu		
Input	DC 12V (Support 5-19V), 55-21mm Socket		
Power Consumption	Max 0.15W (12V,0.12A)		
Adapter	C/CS Mount		
Product Size	55*55*60mm		
Product Weight	200g		
Package Size	160*100*80mm		
Package Weight	450g		
Packaging list	Camera/Adapter/Remoter/USB Cable/HDMI Cable/ 16G TF Card/Instruction Manual		

#### Color Gain

#### Record Audio



Date/Time

# A59.4251 10.1" Win10 Tablet Digital Camera, 5.0M







#### **DIGITAL CAMERA**

HDMI 1/2.5" Color CMOS, 2592x1944, 5.0M Full HD Preview And High Resolution Photo Capture



Adjustable Angle For Easy Observation



Function	A59.4251 Camera Specification
Screen Size	1/2.5"
Effective Pixels	5 Million
Camera Resolution	2592*1944
Pixel Size	2.2µm*2.2µm
UI	Windows 10
Labeling Functions	Point Coordinates, Cross Lines, Text Notes
Length Mwasurement	Linear, Fold Line, Curve, Parallel Line Distance, Point Line Distance
Center Distance	Radius Fixed Circle, Two Point Fixed Circle, Three Point Fixed Circle
Geometrical Measurement	Line Segment Length, Radius Fixed Circle, Two Point Fixed Circle, Three Point Fixed Circle, Concentric Circle
Geometrical Area	Polygons, Squares
Photo/Video	Support
Power	DV-5V
Operating Temperature	-10°C+70°C
Humidity	10%~90%
Function	A59.4251 Pad Specification
Screen Size	10.1"
Screen Size Screen Resolution	10.1" 1280*800
Screen Resolution	1280*800
Screen Resolution CPU	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz
Screen Resolution CPU HDD	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM
Screen Resolution CPU HDD System	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10
Screen Resolution CPU HDD System Battery	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH
Screen Resolution CPU HDD System Battery WIFI	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support Support MicroUSB、MicroHDMI、Standard USB3.0
Screen Resolution CPU HDD System Battery WIFI Bluetooth	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support
Screen Resolution CPU HDD System Battery WIFI Bluetooth Interface Type	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support Support MicroUSB、MicroHDMI、Standard USB3.0
Screen Resolution CPU HDD System Battery WIFI Bluetooth Interface Type	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support 5G WIFI MicroUSB、MicroHDMI、Standard USB3.0 Support Class10
Screen Resolution CPU HDD System Battery WIFI Bluetooth Interface Type TF Card	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support 5G WIFI Support MicroUSB, MicroHDMI, Standard USB3.0 Support Class10 Application Scensrios
Screen Resolution CPU HDD System Battery WIFI Bluetooth Interface Type TF Card Biological Recognition	1280*800         Intel Z8350 CPU@1.44GHz High Speed 1.92GHz         4GB DDR+64GB ROM         Windows 10         5500MAH         Support 5G WIFI         Support         MicroUSB、MicroHDMI、Standard USB3.0         Support Class10         Application Scensrios         Portrait Detection, Fingerprint, Palmprint Recognition, Lris Detection, Etc
Screen Resolution CPU HDD System Battery WIFI Bluetooth Interface Type TF Card Biological Recognition Defect Elimination	1280*800 Intel Z8350 CPU@1.44GHz High Speed 1.92GHz 4GB DDR+64GB ROM Windows 10 5500MAH Support 5G WIFI Support 5G WIFI MicroUSB、MicroHDMI、Standard USB3.0 Support Class10 <b>Application Scensrios</b> Portrait Detection, Fingerprint, Palmprint Recognition, Lris Detection, Etc Test The Quality Of The Products Area Measurement, Three-coordinate Measurement, Three-dimensional Scanning,

### A59.3808 USB2.0 CMOS Digital Camera

#### OPTO-EDU

USB 2.0 Output, With Professional Analysis Software 2.0M, 5.0M, 12.0M Pixels USB2.0 CMOS Sensor Standard C-Mount For Using In Trinocular Photo Port 30 fps 2.0M, 22 fps 5.0M, 12 fps 12.0M Support PC Win7, Win8, Win10 System



Model	2M	5M	12M
Sensor Model	Sony	Sony	Panasonic
Sensor Size	1/2.9"	1/2.8"	1/2.33"
Resolution	2MP, 1920x1080	5MP, 2560x1920	12MP, 4000x3000
Pixel Size	2.8µmx2.8µm	2.0 µmx2.0µm	1.335µmx1.335µm
Frame Rate	30fps	22fps	15fps
Color/Mono	Color		
Shutter Type	Rolling Shutter		
Exposure Mode	Auto/Manual		
Picture Format	TIFF/JPG/PNG/DICOM		
Operating System	Windows 7/8/10 (32 Bit/64 Bit)		
PC Software	Mosaic V2.0		
SDK	C/C++, C#, Directshow		
Optical Interface	C Mount		
Data Interface	USB2.0		
Operating Temperature	0-60°C		
Operating Humidity	10%-85%		
Camera Size	68X68X42.5(mm)		
Camera Weight	253g		

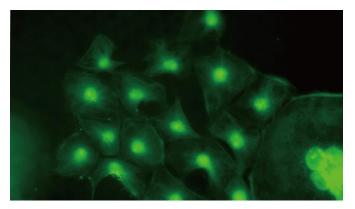
# A59.3811 Auto Focus HDMI+USB+SD Digital Camera, 6.0M, Mouse Control





HDMI+USB2.0 Auto Focus Digital Camera 6.0M Resolution 1/2.8" CMOS Sensor Mouse Control Menu & Measuring Under HDMI Interface HDMI+USB2.0+SD Card Data Output Standard C-Mount For Using In Trinocular Photo Port

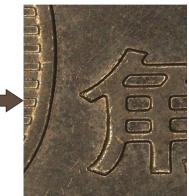
#### **Sample Applications**



#### **3D Noise Reduction**

The Powerful 3D Noise Reduction Function Can Effectively Reduce The Noise Caused By Prolonged Exposure Time And Keep The Picture Clean And Clear, And The Picture Quality Is More Extraordinary.





#### **Highly Intelligent**

It Can Automatically Acquire Image Information, And Can Also Provide Ideal White Balance And Saturation Effects Under The Automatic Exposure Mode. Whether In Bright Field Or Dark Field, Almost No Manual Adjustment Skills Are Required To Obtain Stunning Images.

## **Camera Specification**

Sensor	CMOS	Sensor Size	1/2.8"
Dynamic Resolution	2MP, 1920x1080	Static Resolution	6MP, 3264x1836
Frame Rate	30fps @USB2.0 60fps @HDMI	Video Recording	30fps @PC 30fps @SD Card
Exposure Mode	Auto/Manual	Exposure Time	0.001s-10s
Output Interface	USB2.0,SD Card, HDMI	Setting	Gamma,Gain, WDR Noise Reduction,
White Balance	Auto/Manual	Optical Port	Standard C-Mount
Built-in Software	Cloud 1.0 Ver	PC Software	Capture V2.0
Size	90.7x78x70.8(mm) Weight 400	(g)	
Compatible OS	Windows 7/8/10 (Real-time Ima	ge Stitching Needs	s To Run On A 64-bit System)

#### **Retina Screen Features(Optional)**

Resolution	1080P(1920x1080)	Display Type	IPS-Pro
Screen Size	11.6"	Aspect Ratio	16:09
Brightness	320cd/m2	Static Contrast Ratio	1000:01:00
HDMI Port	1	Power Supply Type	12V, 2A
Size	282.0x180.5x15.3(mm)	Weight	600(g)

#### **Capture V2.0 Feature Function**

Modular Function Configuration
Intelligent 12-bit ISP Color Reproduction
Real-time Depth Of Field Fusion (option)
Real-time Image Stitching (option)
Real-time Fluorescence Image Synthesis And Editing
HDR Image Synthesis
Micro-imaging-based Intelligent Automatic Exposure
Intelligent Flat Field Correction Based On Dynamic Calculation
Supports Single Shot, Delayed Camera
Automatic Video And Delay Video Generation
Output Format Selection
User Parameter Group Save And Load
Dynamic \ Static Measurement
Layered Measurement
Customize Measuring Gauges, Layers, Precision
Customize Image Naming, Style, Save Location
Implements Drawing: Points, Lines, Rectangles, Polygons, Circles, Arcs, Angles
Data Export As Txt Or Excel
Report Generation And Printing

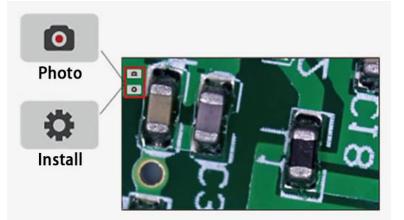
# A59.3815 HDMI+USB+SD Digital Camera, 5.0M, Mouse Measure





Mouse Control Menu & Measuring Under HDMI Int HDMI+USB2.0+SD Card Data Output

Standard C-Mount For Using In Trinocular Photo Port



#### Software With Only Two Buttons

Conveniently, In Fact, You Can Do It With One Click. The Start Screen Has Only Two Buttons, One For Taking Pictures And The Other For Entering The Setup Menu. It's As Simple As A Smartphone iphone.

#### 1080P Video

Click The Button To Shoot 1080p 15fps Video. The Video File Is Stored In A High-speed SD Card, And You Can Also Play It Back Directly.





## **Camera Specification**

Sensor	CMOS	Sensor Size	1/2.5"
	0000		1/2.5
Dynamic Resolution	5MP, 1920x1080	Static Resolution	5MP, 2592x1932
Frame Rate	15fps @USB2.0 15fps @HDMI	Video Recording	15fps @PC 15fps @SD Card
Exposure Mode	Auto/Manual	Exposure Time	0.002s-10s
Output Interface	USB2.0,SD Card, HDMI	Setting	White Balance, Exposure Time, Noise Reduction, Gain, Gamma, Wide Dynamic
White Balance	Auto/Manual	Optical Port	Standard C-Mount
Built-in Software	Cloud 1.0 Ver	PC Software	Mosaic V2.1
Size	90.7x78x70.8(mm) Weight 400	)(g)	
Compatible OS	WindowsXP Or Above, Mac		

#### **Retina Screen Features(Optional)**

Resolution	1080P(1920x1080)	Display Type	IPS-Pro
Screen Size	11.6"	Aspect Ratio	16:09
Brightness	320cd/m2	Static Contrast Ratio	1000:01:00
HDMI Port	1	Power Supply Type	12V, 2A
Size	282.0x180.5x15.3(mm)	Weight	600(g)

#### **Capture V2.0 Feature Function**

Modular Function Configuration
Intelligent 12-bit ISP Color Reproduction
Real-time Depth Of Field Fusion (option)
Real-time Image Stitching (option)
Real-time Fluorescence Image Synthesis And Editing
HDR Image Synthesis
Micro-imaging-based Intelligent Automatic Exposure
Intelligent Flat Field Correction Based On Dynamic Calculation
Supports Single Shot, Delayed Camera
Automatic Video And Delay Video Generation
Output Format Selection
User Parameter Group Save And Load
Dynamic \ Static Measurement
Layered Measurement
Customize Measuring Gauges, Layers, Precision
Customize Image Naming, Style, Save Location
Implements Drawing: Points, Lines, Rectangles, Polygons, Circles, Arcs, Angles
Data Export As Txt Or Excel
Report Generation And Printing

# A59.3820 3D Super EDF Auto-Focus Measuring HDMI Digital Camera



Before EDF Focus In Different Depth



After EDF Focus In All Depth

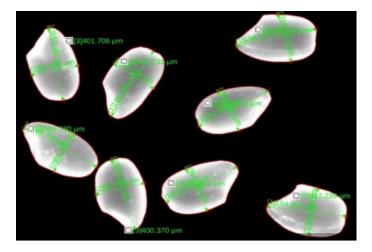
3D+2D Measure By Mouse & Keyboard Control Under HDMI Interface, No Need Computer Combine Dynamic Color Camera, Precise Z-axis Motorize Stage, PC & Software 4 in 1 Super Extend Depth of Field (EDF) Auto Focus To View Different Height Points In One Picture One Key 3D Modeling, 2D Automatic Batch Measurement Eliminate Human Errors Standard C-Mount For Using With Biological, Metallurgical, Stereo Microscope



For standard parts, **A59.3820** can be customized according to the set standard deviation range. Dynamically display OK/NG results of samples to improve quality inspection and analysisefficiency.

#### **Output All Measurement Data At One Time**

OPTO



For non-standard parts, **A59.3820** can set similarity tolerance, output the measurement data of all samples at once to improve batch measurementefficiency.

Model	A59.3820 3D Super	EDF Auto-Focus HDMI Digital Camera
	Sensor	Sony 1/2"color CMOS
	Resolution	1080P(1920×1080)
	Pixel Size	3.75µm×3.75µm
	Shutter Mode	Rolling
	Scanning Method	Progressive scanning
Camera Features	Frame Rate	60fps(Normal),30fps(WDR)
	Gain	Automatic / Manual
	Exposure Time	Automatic: 0.1ms-16.6ms, Manual: 0.0001s-1s
	White Balance	Automatic/Manual/Area
	Image Storage	TIFF/JPEG
	Video Format	AVI/MP4(1080P)
	3D Noise Reduction	Support
	WDR	Support
	Real-time EDF	Support
Advanced Features	Edge Enhancement	Support
(Embedded)		Support
(	Color Enhancement	Support
	Flat Field Correction	Support
	Effect Mode	Normal/Negative/Relief/Grayscale
	Online Calibration	Support
		Pseudo-color/Real Scene Display, Grid Lines,
	3D Display	360° rotation
	3D Histogram	Support
	3D Profile Measurement	Height Difference, Curvature, Area, Roughness
3D Display &	3D Surface Measurement	Step Height, Volume, Surface Roughness
Measurement	Z Range (Depth of Field)	23000µm
	3D Measurement Accuracy	•
	(10X)	±2µm
	3D Repeatability (10X)	±1µm
	3D Measurement Report	Support, Editable Template
	2D Calibration Ruler	Support
		Point-point, Point-line, Line-line, Parallel,
	2D Manual Measurement	Perpendicular,
	Counter	Polygon, Circle, Arc, Concentric Circle, Circle-
2D Measurement	Counter	circle, Ang
	2D Measurement Accuracy	±2µm
	(10X)	
	2D Repeatability (10X)	±2µm
	2D Measurement Report	Support
Input	Mouse Input	USB Mouse
input	Keyboard Input	USB Keyboard
	Optics	Standard C-Mount To Microscope Trinocular
		Head
	Video Output	HDMI 2.0 To Monitor Directly
Interface	Internet Connection	Fast Ethernet
		USB2.0 x 3, USB3.0 x1,
	USB Output/Input	Save Image & Video To USB Disk,
		Connect To USB Mouse & Keyboard
		Built-in 32G Emmc
	Power supply	DC 12V 8A
Others		2.5kg
	Appearance size (WxHxD)	87cm*181cm*103cm
	Working environment	5°C-40°C (temperature), 45%-85% (humidity)

## A59.4902 HDMI+USB Digital Camera 3.5M, Manual Focus

#### OPTO-EDU

3.5M High Quality 1/3" CMOS Digital Camera
HDMI & USB Dual Image Output, SD Card Built-in
Unique Designed Manual Focusing Knob Enlarge Focusing Range
C-Mount & Eyepiece Tube Adapter Connect All Microscopes
Professional Analysis Software Support Measuring Function



High Quality 3.5M CMOS sensor HDMI & Mini USB Port



0

≈11.6**~36mm** 

F Card Slot Max 64G Support Quick Image & Video Capture Certified By RoHs ,FCC, CE







Hardware Configuration		
Imaging Sensor	Aptina AR0330 CMOS Sensor	
Scan Mode	Scan line by line	
The maximum resolution	2304 x 1535(3,538,944 pixels)	
Sensor Optical Format	1/3" (5.07mm(H) x 3.38mm(V), Diagonal 6.09mm)	
Pixel Size	2.2µm x 2.2µm	
Dynamic Range	69.5dB	
ADC	12-bit, 8-Bit R.G.B to PC	
SNR(Signal Noise Ratio)	39dB	
Spectral Characteristics	380-650nm	
Video Mode Resolution	1080P@30FPS, 720P@30FPS,WVGA@30FPS	
Snapshot Mode Resolution	2304x1536, 2304x1296, 1920x1080, 1280x720, 800x480	
Exposure Capability	Real-time auto, Single auto, Manual adjustment	
White Balance	Real-time auto, Single auto, Manual adjustment	
	Picture	
	Resolution: 1920x1080, 1280x720, 800x480	
	Format: JPG	
Capture Modes	Video	
	Resolution: 2304x1536, 2304x1296, 1080P@30FPS, 720P@30FPS,	
	WVGA@30FPS	
	Format: MOV	
Record Route	The local and TF card	
	Interface Parameter	
Camera Interface	C mount thread (1"x1/32) BFL: 11.6-36mm	
	HD Model: Mini HD	
Wired Picture Interface	USB Model: Micro USB	
Charger Interface	Micro USB, DC5.0V 2A	
	Software Environment	
Operation System	Microsoft®Windows®XP/7/8/8.1/10(32&64 bit)	
	CPU: equal or more than the second generation Intel core 2.8GHz	
	Memory: 2G or more	
Computer Configuration	USB port: USB2.0 high speed port or compatible port	
	Displayer: Suggest 17 inches or larger	
	Operating Environment	
Operating Temperature	0°C~ 40°C	
Storage Temperature	-20°C~ 60°C	
Operating Humidity	30~60%RH	
Storage Humidity	10~80%RH	

### A59.4902-B HDMI+USB Digital Camera, 2.1M



2.1M High Quality 1/2.8" CMOS Digital Camera
HDMI & USB Dual Image Output, SD Card Built-in
60 Fps Real Time Preview, 30Fps For Record
C-Mount & Eyepiece Tube Adapter Connect All Microscopes
Professional Analysis Software Support Measuring Function



2.1MP Super Wide Dynamic CMOS Sensor



A59.4902-B Passed RoHs, FCC, CE Certificate



Extra Hard Industrial Metal Housing



A59.4902-B Standard Outfit With HDMI Cable, USB Cable, Power Adapter, Software CD, And Remote Wire Controller (Optional)

Hardware Configuration		
Imaging Sensor	SONY CMOS IMx291 super wide dynamic CMOS sensor	
Expose Mode	Rolling shutter	
The Maximum Resolution	2.1M 1920 x 1080(2,073,600 Pixels)	
Sensor Optical Format	1/2.8" (6.058mm(H) x 4.415mm(V))	
Pixel Size	2.9µm x 2.9µm	
Dynamic Range	128dB	
ADC	12-bit, 8-Bit R.G.B to PC	
SNR Max	30dB	
Spectral Characteristics	380-650nm	
Exposure Capability	Real-time auto, Single auto, Manual adjustment	
White Balance	Real-time auto, Single auto, Manual adjust R G B separately	
HD Output Resolution	1920x1080P60, 1920x 1080P50, 1920x 1080P30, 1920x 1080P25, 1920x 1080I60, 1920x 1080I50, 1280x 720P60, 1280x 720P50, 640x 480P60(Auto adjust according to displayer)	
Record Format	Snapshot Picture Format: JPG Resolution: 1920x 1080	
	Record Video Format: MOV Resolution: 1920x 1080P30, 1280x 720P120, 1280x 720P60	
Record Route	TF Card(Maximum support 128G, support hot plug)	
Interface Parameter		
Camera Interface	C mount thread (1"x1/32)	
Wired Picture Interface	HD TYPE C Mini HD	
Charger Interface	Micro USB, DC5.0V (Maximum current 1A)	
Software Environment		
Displayer	Recommend 16:9, at least 1080P HD displayer	
Operating Environment		
Operating Temperature	0°C~ 40°C	
Storage Temperature	-20°C~ 60°C	
Operating Humidity	30~60%RH	
Storage Humidity	10~80%RH	



## A59.4910 USB2.0 CMOS Digital Camera, 5.0M

#### OPTO-EDU

5.0M USB2.0 1/2.5" CMOS Digital Camera
Real Time Preview, Image/Video Capture
Professional Measuring & Analysis Software
Support Windows, Mac, Linux System
C-Mount, Eyepiece Tube Adapter To Use With All Microscopes





A59.4910 with standard C-Mount



A59.4910-M05 with standard C-Mount and 0.5x eyepiece tube adatper set (for eyepiece tube dia.23.2mm,30.0mm,30.5mm)

- A closed structure with color filter built-in, preventing dust from CMOS sensor.
- Designed with commonly used tripod mount 1/4-20A for widely use.
- Reliable electronic double plates design to resolve over heat problem after long working time.
- 5V DC power supply from USB port no need additional power adapter.
- 3 Years Quality Warranty!

A59.4910 Hardware Configuration		
Image Sensor	Color	
Expose	Rolling Shutter	
Maximum Resolution	2592x1944(5,038,848 Pixels)	
Sensor Optical Format	1/2.5" (5.70mm(H) x 4.28mm(V), Diagonal 7.13mm)	
Pixel Size	2.2µm x 2.2µm(BSI)	
Dynamic Range	74.3 dB Linear, More Than 96 dB (Interleaved)	
SNRmax	40dB	
Spectral Charatristics	380-650nm	
Exposure Capability	3.9ms-320ms, Automatic And Manual	
White Balance	Automatic And Manual	
	30FPS @2592X1944,	
Preview Modes	30FPS @1920X1080	
	30FPS @800X600, 640X480	
	Snapshot	
	Picture Format: JPG, BMP, PNG, TIFF, PDF	
Record Format	Resolution: 2592x1944, 1920x1080, 800x600, 640x480	
	Record	
	Video Format: MJPG Format AVI File	
	Resolution: 1920x1080, 800x600, 640x480	
	Software Environment	
	Microsoft®Windows® XP/7/8/8.1/10 (32&64 Bit)	
	CPU: Equal Or More Than The Second Generation Intel Core 2.8GHz	
Windows System Demand	Memory: 2G Or More	
	USB Port: USB 2.0 High Speed Port Or Compatible Port	
	Displayer: Suggest 17 Inches Or Larger	
Operating Environment		
Operating Temperature	0℃-40℃	
Storage Temperature	-20°C-60°C	
Operating Humidity	30-80%RH	
Storage Humidity	10-60%RH	
Power Supply	Direcct-Current 5V, Supply By USB Port	

# A59.4920 USB2.0 CMOS Digital Camera, 5.0M @30Fps

#### OPTO-EDU

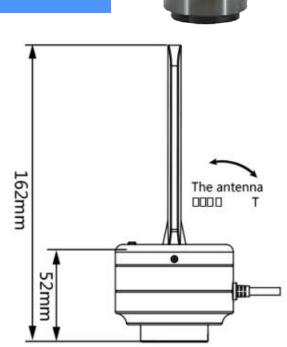
5.0M CMOS High Speed 30Fps Digital Camera 1/2.5" High Quality CMOS Sensor Excellent Color Restoration USB 2.0 Data Output Support Computer Win7, Win10, iMac C-Mount & Eyepiece Tube Adapter Optional Professional Analysis Software Support Measuring Function

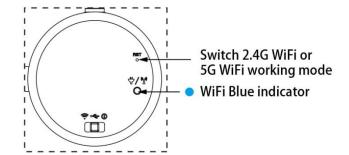
A59.4920 Hardware Configuration		
Image Sensor	Color	
Expose	Rolling Shutter	
Maximum Resolution	2592x1944(5,038,848 Pixels)	
Sensor Optical Format	1/2.5" (5.70mm(H) x 4.28mm(V), Diagonal 7.13mm)	
Pixel Size	2.2µm x 2.2µm(BSI)	
Dynamic Range	74.3 dB Linear, More Than 96 dB (Interleaved)	
SNRmax	40dB	
Spectral Charatristics	380-650nm	
Exposure Capability	3.9ms-320ms, Automatic And Manual	
White Balance	Automatic And Manual	
Preview Modes	30FPS@2592X1944, 1920X1080,1024x768,640X480	
Record Format	Snapshot Picture Format: JPG, BMP, PNG, TIFF, PDF Resolution: 2592x1944, 1920x1080, 1024x768, 640x480 Record Video Format: MJPG Format AVI File Resolution: 1920x1080, 1024x768, 640x480 Softwware Environment	
	Microsoft®Windows® XP/7/8/8.1/10 (32&64 Bit)	
Windows System Demand	CPU: Equal Or More Than The Second Generation Intel Core 2.8GHz Memory: 2G Or More USB Port: USB 2.0 Or Compatible Port Displayer: Suggest 17 Inches Or Larger	
Operating Environment		
Operating Temperature	0°C-40°C	
Storage Temperature	-20°C-60°C	
Operating Humidity	30-80%RH	
Storage Humidity	10-60%RH	
Power Supply	Direcct-Current 5V, Supply By USB Port	

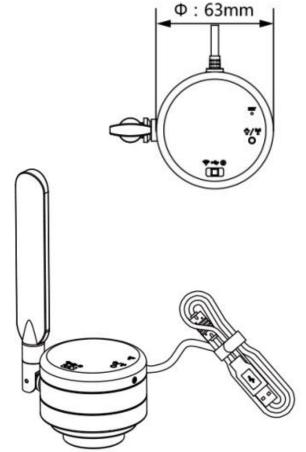
# A59.4920-W 5G WIFI+USB Digital Camera, 5.0M, 30Fps, Win,Android,iOS

#### OPTO-EDU









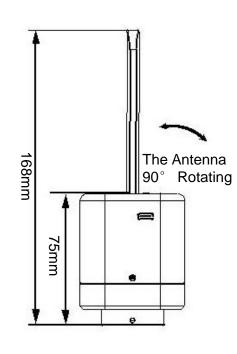
	A59.4920-W Hardware Configuration
Image Sensor	APTINA AR0521 CMOS (Colorful)
Expose Mode	Rolling Shutter
Maximum Resolution	2592x1944(5,038,848 Pixels)
Sensor Optical Format	1/2.5"
Pixel Size	2.2µm x 2.2µm
Dynamic Range	74.3 dB Linear, More Than 96 dB (Interleaved)
SNRmax	40dB
Spectral Charatristics	380-650nm
Exposure Capability	3.9ms-320ms, Automatic And Manual
White Balance	Real-time Auto, Single Auto, Manual Adjustment
Preview Modes	USB mode:30FPS @2592X1944,1920X1080,1024X768, 640X480 WiFi mode:30FPS @2592X1944,1920X1080,1024X768, 640X480 Snapshot
Record Format	Picture Format: JPG, BMP, PNG, TIFF, PDF Resolution: 2592x1944, 1920x1080, 1024x768, 640x480 Record Video Format: MJPG Format AVI File Resolution: 1920x1080, 1024x768, 640x480
Micro USB Interface	Wired: USB2.0 DC 5.0V 500mA Wireless: USB2.0 DC 5.0V 1500mA
Camera Interface	C Port
	Wireless Parameter
Standard	2.4G:IEEE 802.11n
Standard	5G:IEEE 802.11ac
	2.4G:2.400-2.4835GHz
Operating Frequency Range	5G:5.180-5.825GHz
	Software Environment
	Microsoft®Windows® XP/7/8/8.1/10 (32&64 Bit)
	CPU: Dual-core 3.0 GHz Or More CPU
Windows System Demand	Memory: 4G Or More
-	At Least 10GB Available Hard Disk Space
	Wireless Network Card (Support IEEE 802.11n/ac)
OS System Demand	iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch) iPad Air 2/iPad mini 4
	iOS11.0 or higher
Android aveter demand	Android5.0 or higher
	CPU: dual-core 1.7GHz or higher
Android evetom domand	
Android system demand	RAM memory: 1G or more

Hardware Of The Smart Device Supports IEEE802.11ac/n Protocol; Otherwise, Images Cannot Be Obtained Normally In 5G WiFi Mode.

# A59.4920-W2

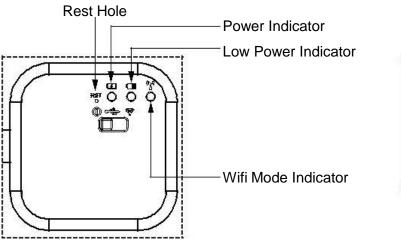
5G WIFI+USB Digital Camera, Rechargeable, 5.0M, 30Fps, Win, Android, iOS

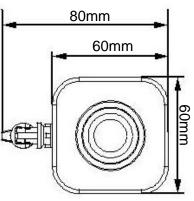






5G WIFI 5.0M CMOS High Speed 30Fps Digital Camera
1/2.5" High Quality CMOS Sensor Excellent Color Restoration
5G WIFI & USB 2.0 Data Output Support Computer Win7, Win10, iMacitchable By User
Built-in Rechargeable Battery, Type C Charging Port
Professional Analysis Software Support Measuring Function





Hardware configuration		
Image Sensor	OnSemi AR0521	
Expose mode	Rolling shutter	
Maximum Resolution	2592 x 1944 (5,038,848 pixels)	
Sensor Optical Format	1/2.5"	
Pixel Size	2.2µm x 2.2µm	
Dynamic Range	74.3 dB Linear, more than 96 dB (Interleaved)	
SNRmax	40dB	
Spectral Charactristics	380-650nm	
Exposure Capability	3.9ms - 320ms, Automatic and manual	
White Balance	Real-time auto, Single auto, Manual adjustment	
	USB mode:	
Maximum Transmission	30FPS@2592x1944, 1920x1080, 1024x768, 640x480	
Frame Rate	WiFi mode:	
	30FPS@2592x1944, 1920x1080, 1024x768, 640x480	
	Snapshot	
	Picture Format: JPG,BMP,PNG,TIFF,PDF	
Record format	Resolution: 2592x1944, 1920x1080, 1024x768, 640x480	
	Record	
	Video Format: MJPG format AVI file	
	Resolution: 1920x1080, 1024x768, 640x480	
Power Consumption	Wired: USB2.0 DC 5.0V 500mA	
· .	Wireless: USB2.0 DC 5.0V 1500mA	
Camera Interface	C Port	
	Wireless Parameter	
Standard	IEEE 802.11ac	
Operating Frequency Range	5.180-5.825GHz	
	Software Environment	
	Software Environment Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)	
	Software Environment Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit) CPU: i7 eight generation quad core or higher	
Range	Software Environment Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit) CPU: i7 eight generation quad core or higher Memory: 8G or above	
	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space	
Range	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)	
Range	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)	
Range	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11	
Range	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR	
Range	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)iPhone 11 Pro/11 Pro Max/11iPhone X / XS / XS Max / XRiPhone 8/ 8 Plus	
Range	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8/ 8 Plus         iPhone 7 / 7 Plus	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 7 / 7 Plus         iPhone 6s / 6s Plus / 6 /6 Plus/ SE	
Range	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)iPhone 11 Pro/11 Pro Max/11iPhone X / XS / XS Max / XRiPhone 8/ 8 PlusiPhone 6s / 6s Plus / 6 /6 Plus / SEiPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus / 6/6 Plus iPad Pro (12.9-inch 2nd	
Range Windows system demand	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)iPhone 11 Pro/11 Pro Max/11iPhone X / XS / XS Max / XRiPhone 8/ 8 PlusiPhone 6s / 6s Plus / 6 /6 Plus / SEiPhone X/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)	
Range Windows system demand	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)iPhone 11 Pro/11 Pro Max/11iPhone X / XS / XS Max / XRiPhone 8/ 8 PlusiPhone 6s / 6s Plus / 6 /6 Plus / SEiPhone X/ 8/ 8 Plus/7 / 7 Plus/6s/6s Plus / 6/6 Plus iPad Pro (12.9-inch 2ndgeneration)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)	
Range Windows system demand	Software EnvironmentMicrosoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)CPU: i7 eight generation quad core or higherMemory: 8G or aboveHard disk: at least 50 GB free spaceGPU: standalone graphics card (NVIDIA GPU)Wireless network card(must support IEEE 802.11ac)iPhone 11 Pro/11 Pro Max/11iPhone X / XS / XS Max / XRiPhone 8/ 8 PlusiPhone 6s / 6s Plus / 6 /6 Plus/SEiPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2ndgeneration)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)protocol	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8/ 8 Plus         iPhone 6s / 6s Plus / 6 /6 Plus / SE         iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)         iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac) protocol         iOS11.0 or higher	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8/ 8 Plus         iPhone 6s / 6s Plus / 6 /6 Plus / SE         iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus / 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)         iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)         protocol         iOS11.0 or higher         Android5.0 or higher	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8/ 8 Plus         iPhone 6s / 6s Plus / 6 /6 Plus / SE         iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)         iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)         protocol         iOS11.0 or higher         Android5.0 or higher         CPU: dual-core 1.7GHz or higher	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8 / 8 Plus         iPhone 6s / 6s Plus / 6 /6 Plus / SE         iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation) / (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)         iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)         protocol         iOS11.0 or higher         Android5.0 or higher         CPU: dual-core 1.7GHz or higher         RAM memory: 3G or more	
Range Windows system demand	Software Environment         Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)         CPU: i7 eight generation quad core or higher         Memory: 8G or above         Hard disk: at least 50 GB free space         GPU: standalone graphics card (NVIDIA GPU)         Wireless network card(must support IEEE 802.11ac)         iPhone 11 Pro/11 Pro Max/11         iPhone X / XS / XS Max / XR         iPhone 8/ 8 Plus         iPhone 6s / 6s Plus / 6 /6 Plus / SE         iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd generation)/ (12.9-inch 1st generation) / (10.5-inch) / (9.7-inch)         iPad Air 2/iPad mini 4 and other new devices that support the 5G WiFi (11ac)         protocol         iOS11.0 or higher         Android5.0 or higher         CPU: dual-core 1.7GHz or higher	

# A59.4924 4K USB2.0 CMOS Digital Camera, 8.0M+30fps

#### OPTO-EDU

4K 8.0M CMOS High Speed 30Fps Digital Camera 1/1.8" High Quality CMOS Sensor Excellent Color Restoration USB 2.0 Data Output Support Computer Win7, Win10, iMac Biological/Stereo Modes, LED/Halogen Modes Switchable By User Professional Analysis Software Support Measuring Function

#### **Camera Dimensions**

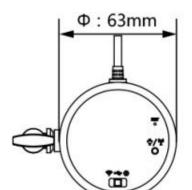
Hardware Parameters		
Image Sensor	Sony IMX334 CMOS Sensor	
Expose Mode	Rolling Shutter	
Maximum Resolution	3840x2160 (8,294,400 Pixels)	
Sensor Optical Format	1/1.8"	
Pixel Size	2.0μm x 2.0μm	
Dynamic Range	72db(Non-HDR Mode)	
SNRMax	<0.64lx	
Spectral Charactristics	380-650nm	
Exposure Capability	Automatic And Manual	
White Balance	Automatic And Manual	
Preview Modes	30FPS@3840x2160,2592x1944,1920x1080,1024x768,640x480	
Record Format	Snapshot Picture Format: JPG,BMP,PNG,TIFF,PDF Resolution: 3840x2160,2592x1944,1920x1080,1024x768,640x480 Record Video Format: MJPG Format AVI File Resolution: 3840x2160,2592x1944,1920x1080,1024x768,640x480	
Software Environment		
Windows System Demand	Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit) CPU: Equal Or More Than The Second Generation Intel Core 2.8GHz Memory: 2G Or More USB Port: USB2.0 Or Compatible Port Displayer: Suggest 17 Inches Or Larger	
Operating Environment		
Operating Temperature	0°C-40°C	
Storage Temperature	-20°C-60°C	
Operating Humidity	30-80%RH	
Storage Humidity	10-60%RH	
Power Supply	Direct-current 5V, Supply By USB Port	

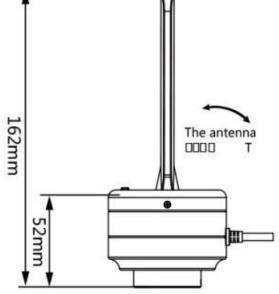
## A59.4924-W 4K 5G WIFI+USB Digital Camera, 8.0M, 30fps

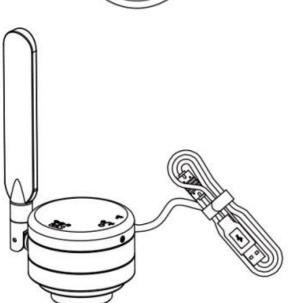
OPTO-EDU

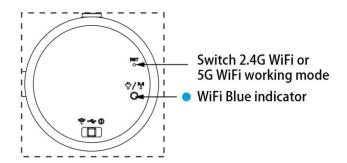
4K 5G WIFI 8.0M CMOS High Speed 30Fps Digital Camera 1/1.8" High Quality CMOS Sensor Excellent Color Restoration 5G WIFI & USB 2.0 Data Output Support Computer Win7, Win10, iMac Biological/Stereo Modes, LED/Halogen Modes Switchable By User Professional Analysis Software Support Measuring Function







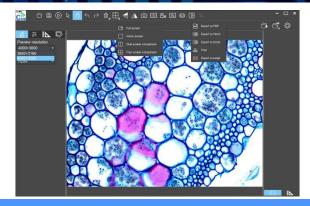




Hardware Parameters		
Image Sensor	Sony IMX334 CMOS Sensor	
Expose Mode	Rolling Shutter	
Maximum Resolution	3840x2160 (8,294,400 Pixels)	
Sensor Optical Format	1/1.8"	
Pixel Size	2.0μm x 2.0μm	
Dynamic Range	72db(Non-HDR Mode)	
SNRMax	<0.64lx	
Spectral Charactristics	380-650nm	
Exposure Capability	3.9ms - 320ms, Automatic And Manual	
White Balance	Real-time Auto, Single Auto, Manual Adjustment	
Maximum Transmission Frame Rate	USB Mode: 30FPS@3840x2160,2592x1944,1920x1080,1024x768,640x480 WiFi Mode: 30FPS@3840x2160,2592x1944,1920x1080,1024x768, 640x480	
Record Format Power Consumption	Snapshot Picture Format: JPG,BMP,PNG,TIFF,PDF Resolution: 3840x2160,2592x1944,1920x1080,1024x768,640x480 Record Video Format: MJPG Format AVI File Resolution: 1920x1080,1024x768,640x480 Wired: USB2.0 DC 5.0V 500mA Wireless: USB2.0 DC 5.0V 1500mA	
Camera Interface	C Port	
	Wireless Parameter	
Standard	IEEE 802.11ac	
Operating Frequency Range	5.180-5.825GHz	
	Software Environment	
	Microsoft® Windows® XP / 7 / 8 /8.1/10(32 & 64 bit)	
	CPU: Dual-core 3.0GHz Or More CPU	
Windows System Demand	Memory: 4G Or More	
	At Least 10 GB Avaliable Hard Disk Space	
	Wireless Network Card(Support IEEE 802.11ac)	
iOS System Demand	iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro (12.9-inch 2nd Generation)/ (12.9-inch 1st Generation) / (10.5-inch) / (9.7- inch) iPad Air 2/iPad Mini 4 iOS11.0 or Higher	
	Android5.0 Or Higher	
	CPU: Dual-core 1.7GHz Or Higher	
Android System Demand	RAM Memory: 1G Or More	
	Storage ROM: Suggest 8G Or Larger	
	ease Confirm That The Hardware Of The Smart Device Supports I mages Cannot Be Obtained Normally In 5G WiFi Mode.	

# A59.4972 9" LCD Digital Camera, USB2.0 +Mouse Measure, 5.0M







8K 5G WIFI+HDMI+USB+WAN 12.0M High Speed 30Fps Digital Camera
1/2.3" High Quality CMOS Sensor Excellent Color Restoration
5G WIFI & USB 2.0 Data Output Support Computer Win7, Win10, iMac
Perfectly Compatible With Three Main Systems of Windows, iOS And Android.
Professional Analysis Software Support Measuring, Image Stiching, Field Of View Extend

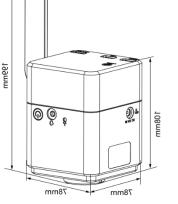
A59.4972 8K 5G WIFI+HDMI+USB+Enternet Digital Camera, 12.0M		
Output	USB Output, PC Software HDMI Output 5G WIFI Output, App Software Enternet Output, WAN Port	
Physical Pixel	12.0MP	
Sensor Model	Sony IMX412 CMOS	
Exposure Mode	Roller Shutter Exposure	
Highest Resolution	8K, 4000x 3000 (12.000.000)	
Sensor Size	1/2.3"	
Pixel Size	1.55µm×1.55µm	
Spectral Response	380-650nm, For Fluorescent, Dark Field Image	
Exposure	Automatic And Manual	
White Balance	Real-time Auto, Manual Adjustment	
Record Format	Snapshot Format: JPG Resolution: 4000×3000,3840×2160 Record Format: MP4 file Resolution: 1920×1080@60FPS	
Power Consumption	DC 5V 2A	
HDMI Output Resolution	Auto-adaptive Display, Up To 3840 × 2160P30	
Supporting Protocol	5G WiFi IEEE 802.11ac	
Working Frequency	5.180-5.825GHz	

# A59.4974

**OPTO-EDU** 

4K 5G WIFI+HDMI+USB Disk Digital Camera, 12.0M, C-Mount, HDMI Measuring





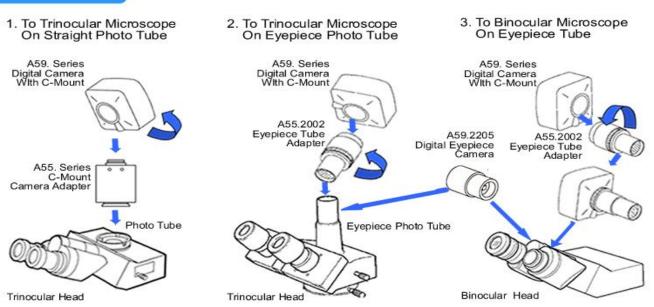


12M 4K HDMI+5G WIFI+USB Disk High Speed 30Fps Digital Camera No Need Computer, HDMI Interface With Built-in Operation Measure System & Office For Report Create Directly Built-in 32G Memory + USB 3.0 To USB Disk Storage, Control By USB 2.0 Mouse & Keyboard 5G WIFI Image Output System Perfectly Compatible With Three Main Systems of Windows, iOS And Android.

Built-in 10+ Viewing Mode Perfectly Support Biological/Stereo/BF/DF/PL/PH/FL/DIC Etc.

#### **OPTO-EDU**

#### How Camera Connect To Microscope



A59.4974 4K 5G WIFI+HDMI+USB Disk Digital Camera, 12.0M, C-Mount, HDMI Measuring Advantages --12M 4K HDMI+5G WIFI+USB Disk High Speed 30Fps Digital Camera --No Need Computer, HDMI Interface With Built-in Operation Measure System & Office For Report Creat Directly --Built-in 32G Memory + USB 3.0 To USB Disk Storage, Control By USB 2.0 Mouse & Keyboard --5G WIFI Image Output System Perfectly Compatible With Three Main Systems of Windows, iOS And Android. --Built-in 10+ Viewing Mode Perfectly Support Biological/Stereo/BF/DF/PL/PH/FL/DIC Etc. All-in-One No Need Computer HDMI+WIFI Camera --Perfectly compatible with three mainstream systems of Windows, iOS and Android. --Built-in deeply customized operating system. It comes with imaging APP, when starting up, it will connect with microscopic live image instantly and automatically. --32GB RAM ,support USB3.0 flash disk to export picture, video data. --4K HDMI output to monitor, TV, projector. --The USB2.0 ports can connect to mouse, keyboard, convenient for measurement and text input. --Allow to use mobile phone or tablet to scan the dedicated QR code for wireless point-to-point connection to share live imaging. A59.4974 4K 5G WIFI+HDMI+USB Disk Digital Camera, 12.0M, C-Mount, HDMI Measuring 4K HDMI Output, With Built-in Software

	4K HDMI Output, With Built-in Software
Output	5G WIFI Output, App Software
	USB 3.0 Output to USB Disk
Physical Pixel	12.0MP
Sensor Model	Sony IMX412 CMOS
Exposure Mode	Roller Shutter Exposure
Highest Resolution	8K, 4000x 3000 (12.000.000)
Sensor Size	1/2.3"
Pixel Size	1.55µm×1.55µm
Spectral Response	380-650nm, For Fluorescent, Dark Field Image
Exposure	Automatic And Manual
White Balance	Real-time Auto, Manual Adjustment
Record Format	Snapshot Format: JPG Resolution: 4000×3000,3840×2160 Record Format: MP4 file Resolution: 1920×1080@60FPS
Power Consumption	DC 12V 3A
HDMI Output Resolution	Auto-adaptive Display, Up To 3840x2160P30
Supporting Protocol	5G WiFi IEEE 802.11ac
Working Frequency	5.180-5.825GHz
Storage	Built-in 32G Memory, USB 3.0 to USB Disk
HDMI	4K HDMI Output, With Built-in Operation Measure System & Office For Report Creat Directly
WIFI	5G WIFI Image Output System Perfectly Compatible With Three Main Systems of Windows, iOS And Android
USB3.0	Output To USB Disk
USB2.0	Connect To Mouse & Keyboard To Control HDMI Interface Software

# A59.5107 7" LCD Digital Camera, AV Output

OPTO-EDU



WEIN .



	A59.5107 7" LCD Digital Camera, AV Output
А59.5107-В	Black 7", 0.58M, 5V DC USB Power Supply, AV Output, Eyepiece Tube 23.2mm Adapter
A59.5107-W	White 7", 0.58M, 5V DC USB Power Supply, AV Output, Eyepiece Tube 23.2mm Adapter

## A59.5109 9" LCD Digital Camera, AV Output





9", 5V DC, AV Output, USB Power Supply, Eyepiece Tube 23.2mm Adapter



WEIN .



### A56.1211-B, A56.3902-C LED Ring Light



OPTO-EDU

#### A56.1211-B LED Ring Light, 56/64/144 LEDs, Dia.61mm

56 bulbs,Continius Intensity Adjustable

#### A56.3902-C LED Ring Light, 40 LEDs, Install Dia. 46.6mm, For Mono Zoom Microscope

40 LEDs, Inner Dia. 28mm, Install Dia.46.5mm, Separate Brightness Adjustment



A56.3902-C40 LED Right Light, For Mono Zoom Microscope	
Install Dia.	46.5mm
Inner Dia.	28mm
Out Dia.	60.5mm
Power	4.5W
LEDs	40 LEDs
Color Temperature	White Light 6500K, Other Color Can Be Customrized
Brightness	0~100% Continous Adjustable
LED Life	>100000 Hours
Power Input	AC90-240V, 50/60Hz
Power Output	DC12V

#### A56.2103-A, A56.2104, A56.3911 LED Ring Light





#### A56.2103-A LED Ring Light, 56 LEDs, 63mm

56 LEDs, 4.5W, Inner Dia.63mm, Light Path Dia.58mm, AC 90~240V

#### A56.2104 LED Ring Light, 144 LEDs, Dia.63mm

144 LEDs White Color, Color Temperature 6000~6300, Inner Dia.63mm, Out Dia.93.5mm, Thickness 23.5mm, Input AC100~240V/50-60Hz, Output DC12V, <8W, 0~100% Brightness Adjustable, Brightness 30000lx~40000lx, (When Working Distance 100mm), Working Distance 10-300mm





#### A56.3911 Polarizing LED Ring Light, 78 LEDs, Dia.69mm

78 LEDs, Install Inner Dia.69mm, Total Dia.104mm, Power 5W@78pcs, Color Temperature 6400K or Customrized, Brightness Adjustable, Polarizer 360° Rotatable, Analyizer, AC100-240V

# A56.2617 LED Cool Light Illuminator

OPTO-EDU





550mm long metal-sheathed fiber optic bifurcated light guides

A56.2617 Cool Light Fiber Optic LED Illuminator Specification										
Model	A56.2617-10	A56.2617-20	A56.2617-30							
Power	10W LED Lamp	20W LED Lamp	30W LED Lamp							
Input voltage	AC 85V~265V, 50Hz-60Hz									
СТ	6000K (3000K, 4500K Optional)									
Illuminance	60000Lx, =100W Halogen	90000Lx, =150W Halogen	150000Lx, =250W Halogen							
LED Life	30000H	30000H								
Fiber Interface	16mm (5/8")	16mm (5/8")								
Cooling System		nd Cooling Fan								
Cooling System	Metal Body	Metal Body + Cooling Fan								
Size	Main Body Size 245x101x157	mm,								
Net Weight	2.2kgs	2.4kgs	2.5kgs							
Gross Weight	2.9kgs									
Packing Size	290x228x255mm									
	Optional Accessorie	es	Item No.							
	Ring Optical Fiber, Length 550	)mm, Beam Dia. 8mm	A56.2618-01							
	Dual Hard Optical Fiber, Lengt	A56.2618-02								
Fiber Optic Light	Single Hard Optical Fiber, Len	A56.2618-03								
Guide (Gooseneck	Ring Optical Fiber, Length 800	A56.2618-04								
type)	Dual Hard Optical Fiber, Lengt	A56.2618-05								
	Single Hard Optical Fiber, Len	gth 800mm, Beam Dia. 8mm	A56.2618-06							
	Single Hard Optical Fiber, Len	gth 1000mm, Beam Dia. 8mm	A56.2618-07							

### A56.2618 Cold Light Source, Halogen 150W

OPTO-EDU





550mm long metal-sheathed fiber optic bifurcated light guides

	A56.2618 Cool Light Fiber Optic Halogen Illuminator Specificat	tion							
Power	1V 150 W Halogen Lamp, WIth Philips Bulb 13629								
Input voltage	AC 85V~265V, 50Hz-60Hz								
Color Temperature	3200K								
Illuminance	90000Lx, =150W Halogen								
Cooling System	Built In Large-area Radiator and Cooling Fan								
Bulb Life	200H								
Fiber Interface	16mm (5/8")								
Size	Main Body Size 245x101x157mm,								
Net Weight	2.1kgs								
Gross Weight	2.9kgs								
Packing Size	290x228x255mm								
	Optional Accessories	Item No.							
	Ring Optical Fiber, Length 550mm, Beam Dia. 8mm	A56.2618-01							
	Dual Hard Optical Fiber, Length 550mm, Beam Dia. 8mm	A56.2618-02							
Fiber Optic Light	Single Hard Optical Fiber, Length 550mm, Beam Dia. 8mm	A56.2618-03							
Guide (Gooseneck	Ring Optical Fiber, Length 800mm, Beam Dia. 8mm	A56.2618-04							
type)	Dual Hard Optical Fiber, Length 800mm, Beam Dia. 8mm	A56.2618-05							
	Single Hard Optical Fiber, Length 800mm, Beam Dia. 8mm	A56.2618-06							
	Single Hard Optical Fiber, Length 1000mm, Beam Dia. 8mm	A56.2618-07							

### A56.5110 Attachable LED Light Source, Rechargeable

OPTO-EDU

A56.5110 Attachable LED Light Source, Rechargeable A56.5110-S Attachable LED Light Source, Rechargeable With Indicator A56.5110-N Attachable LED Light Source, Non-Rechargeable LED 0.75W Brightness Adjustable, Attachable To Student Microscope Built-in Recharge Battery 3.7V, 400mAh Support 20 Hours Illumination Smart Recharge Function, With Charging Indicator LED To Show Battery Conditon Powered By DC3.5 USB Charger, USB Port adn USB Power Bank

A56.5110 Attachable LED Light Source, Rechargeable A56.5110-S Attachable LED Light Source, Rechargeable With Indicator A56.5110-N Attachable LED Light Source, Non-Rechargeable



1

# A56.3910 Polarizing LED Ring Light





- Special polarized light material, polarized light rotation image is clear
  Brightness Adjustable 0~100% Dimming
- Integrated design, easy to install and save space
- The power supply and light source are designed separately
  The colorless temperature changes when the light source is adjusted
  No flicker of fluorescent lamp, the image is clear

A56.3910 Polarizing LED Ring Light							
Input Voltage	DC24V/500mA						
Service Life	>20000Hours						
Luminous Color	White Light						
Inner Dia.	35mm						
Out Dia.	90mm						
Installing Calibre	62mm						
Output Voltage	DC12V						
Brightness Adjustment	0~100% Dimming						
Power	10W						
LED Quantity	120(Φ3 Plug-in Lamp Beads)						
Material	Metal Shell						
Color Temperature	6000K~6500K						
Product Weight	350g						

# A56.3912 LED Ring Light, 72 LEDs, 72mm



6000K-6500K





72 LEDs, Install Inner Dia. 72mm, Out Dia.110mm, Power 10W, W.D.40-160mm, Color Temperature

### A54.9602 Heating Stage for Stereo Microscope





#### E35.3520-A



#### E35.3520-B





The specification of A54.9602 Heating Stage for Stereo Microscope							
Temperature Range	15 to 70 ° C						
Measuring Range	≤±0.2°C						
Temperature setting method	Digital Display, Preset Temperature Control						
Working Condition	15°C - 28°C						

# A54.1004 Temperature Controlled Stage





A54.1004 Temperature Controll Working Stage								
Input Power	60W , AC 110V/60Hz, or 230V/50Hz Switchable							
Output Power	30V/50W							
Fuse	3.15A							
Temp. Control Range	20°C~50°C							
Temp. Setting Division	0.1°C							
Various Between Set And Display Temp.	< +/-1.0°C							
Various Between Actual And Display Temp.	< +/-1.0°C							
Standard Outfit	Temperature Controller Box, Size 90*165*190mm Stage:150x130x5.8mm Cable: 1 pc Adhesive Tape: 1 pc Spare Fuse: 2 pcs							
Packing	1pc/Box, Box Size 14*17*20mm, 3 Kgs							

### A54 Working Stage

OPTO-EDU



A54.0301 Manual Working Stage

180x155x26/75x55mm

A54.0302 Manual Working Stage, with Rotatable Glass Plate

180x155x26/75x55mm, with Dia.95mm Glass Plate Rotatable 360 Degree



A54.0303 Manual Working Stage 10"

245x190x25/100x100mm, Dia.140mm

#### A54.0306 Manual Working Stage, with 360° Rotatable Glass Plate

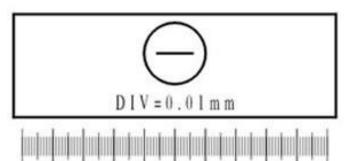
187x160x30/57x55mm, With Dia.95mm Glass Plate Rotatable 360°



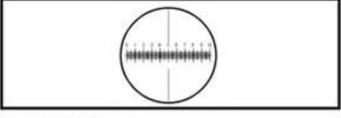


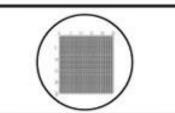
Stage Size 440x290x36mm, XY Move Range 300x250mm





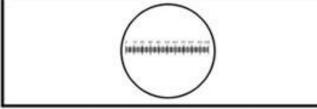
A58.2001-901 100, DIV=0.01mm, 1mm A58.2001 Stage Micrometer, with High Quality Box

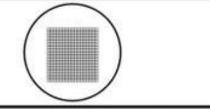




A58.2001-935 100, DIV=0.1mm, 10mm

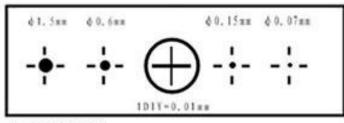
A58.2001-906 Net 25x25, DIV=0.2



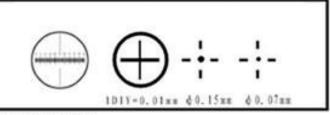


A58.2001-904 100, DIV=0.05mm,5mm

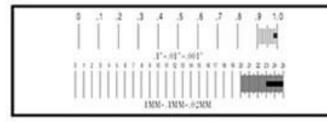
A58.2001-944 Net 20x20, DIV=0.5



A58.2001-909 Calibration Slide Circle Dia.1.5mm, 0.6mm, 0.15mm, 0.07mm 100, DIV=0.01mm, 1mm.

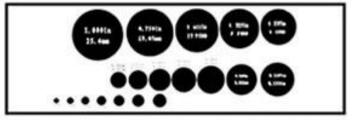


A58.2001-909N Calibration Slide Circle Dia. 0.15mm, 0.07mm 100, DIV=0.1mm, 10mm; 100, DIV=0.01mm, 1mm.



A58.2001-945

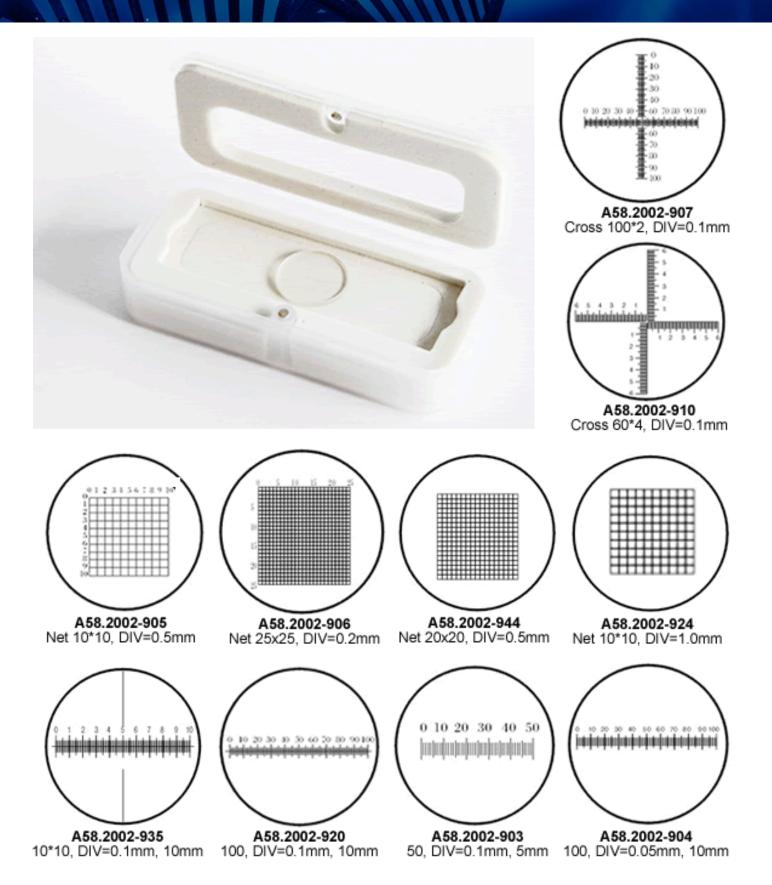
Metric System & English System Micrometer 0.1"-0.01"-00.01", 1mm-0.1mm-0.02mm



A58.2001-955 Circle Micrometer

#### A58.2002 Eyepiece Micrometer

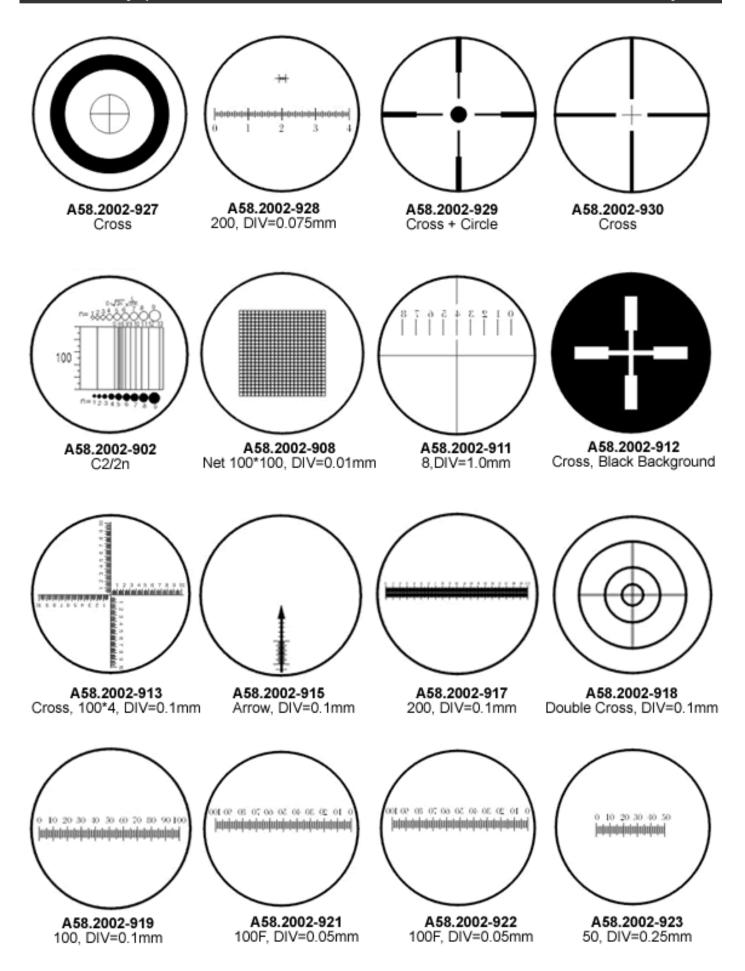


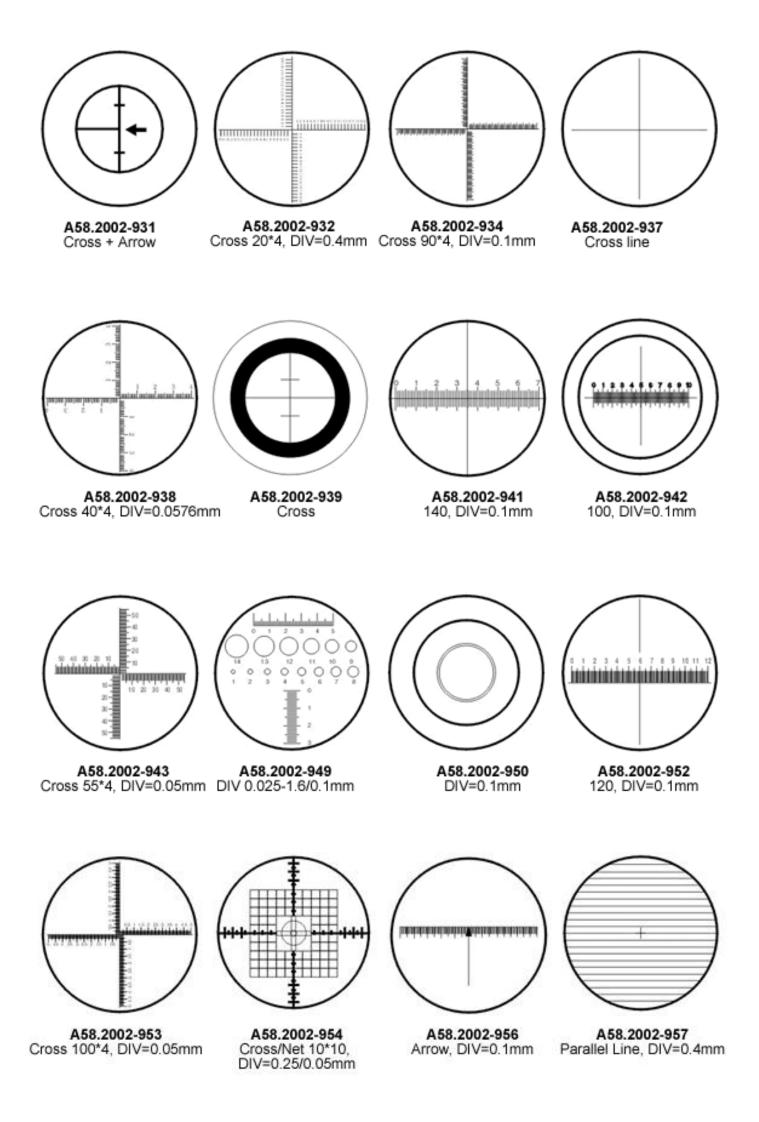


#### **Product Models**

#### Below Eyepiece Micrometer Models can be Customerized

#### MOQ: 100 pcs





#### **OPTO-EDU .22 Series** Digital Microscope 2021

#### HDMI & WIFI, Auto Focus Camera



A59.2221 HDMI Digital Camera, 720P

1.2M, 2M HDMI+SD Mouse Control Small Size 50\*50\*54mm Better Choose 2M



A59.2222 HDMI+USB Digital Camera, 1080P

2M HDMI+USB+SD Mouse Control HDMI+USB



A59.2223 HDMI+WIFI+SD Digital Camera

2M,5M HDMI+WIFI+SD Mouse Control HDMI/WIFI Sync Output Better Choose 5M



A59.2240 Auto Focus HDMI+WIFI+SD Camera

2M,5M HDMI+WIFI+SD Mouse Control HDMI/WIFI Sync Output Autofocus 5M!

#### USB 3.0 Cooled



A59.2208 Digital Camera, C-Mount Type

USB2.0 CMOS 0.35M~14M 5fps@5.0M Most Popular



USB 2.0 Camera

A59.2208-E USB2.0 Digital Camera

USB2.0 CMOS 1.2M~8.3M 6.4fps@5.0M High Sensitive Low Noise



A59.2208-U USB2.0 Digital Camera

USB2.0 CMOS 3.1M~16M 7fps@5.0M With Buffer Memory

# 03B 3.0 C00led



A59.2225 USB3.0 CMOS Cooled Digital Camera, Fluorescent Use USB3.0 CMOS+Cooling Cooling -42°C Anti-Fog 10M~20M Fluorescent, DF,DIC Use 1 Hour Exposure Fluorescent Image 20M!



A59.2226 USB3.0 CCD Cooled Digital Camera, Fluorescent Use

USB3.0 CCD+Cooling Cooling -50°C Anti-Fog 1.4M~20M Fluorescent, DF,DIC Use 1 Hour Exposure

#### USB 3.0 Camera



A59.2211 Digital Camera, USB3.0 CMOS, C-Mount+Eyepiece

USB3.0 CMOS 3.1M~18M 14.2fps@5.0M Most Popular



A59.2213 USB3.0 CMOS Digital Camera, High Fps

USB3.0 CMOS 1.5M~21M Fluorescent Image High 120-164fps!! GS (Globe Shutter)



A59.2212 Digital Camera, USB3.0 CCD C-Mount+Eyepiece

USB3.0 CCD 1.4M~12M 7.5@2748x2200.6M Fluorescent Image

#### **Digital Eyepiece**





A59.2205 Economical USB2.0 Digital Eyepiece Camera

USB2.0 CMOS 0.35~5M 2fps@5.0M Dia.23.2mm

### **OPTO-EDU**



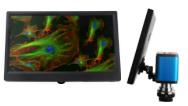
A59.2205-B Economical USB2.0 Digital Eyepiece Camera

USB2.0 CMOS 0.35~5M 2fps@5.0M Dia.23.2mm Built-in Reduction Lens



A59.2205-C Economical USB3.0 Digital Eyepiece Camera

USB3.0 CCD 5M 15fps@5.0M Dia.23.2mm



A59.2226 11.6" HDMI Monitor

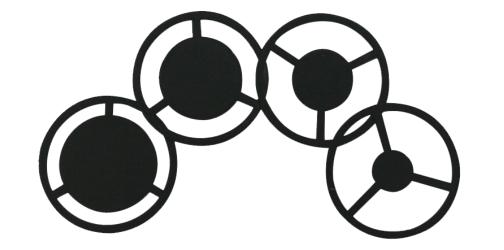
11.6" LCD 1080P,100:1 HDMI Input, LED Backlight For HDMI Camera

### How Camera Connect To Microscope

1. To Trinocular Microscope On Straight Photo Tube 2. To Trinocular Microscope On Eyepiece Photo Tube 3. To Binocular Microscope On Eyepiece Tube A59. Series A59. Series A59. Series Digital Camera With C-Mount Digital Camera With C-Mount Digital Camera With C-Mount A55.2002 Evepiece Tube A59.2205 A55.2002 Adapter Digital Eyepiece Camera Eyepiece Tube Adapter A55. Series C-Mount Camera Adapter Photo Tube Eyepiece Photo Tube Binocular Head Trinocular Head Trinocular Head

### A5D.0001 Dark Field Plate Set





OPTO-EDU



**Fiber** Bright Field Vs Dark Field

**Feather** Bright Field Vs Dark Field

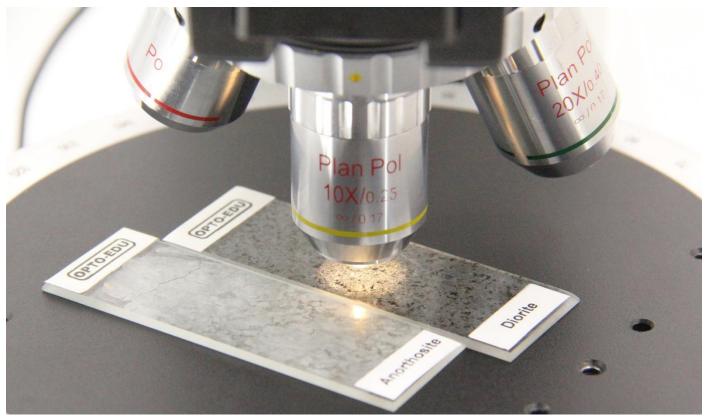
**Rock** Bright Field Vs Dark Field

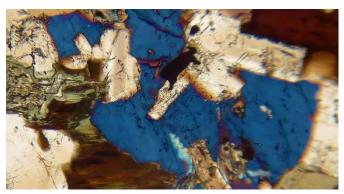
# E35.3629 Rock Thin Section Prepared Slide













Operating Microscope, Step Zoom 3x~12x, For ENT, Surgery, Dental, Ophthalmology, Gynecology, Table Mount, Column Mount





# A41.1901 Series



#### **Product Specification**

A41.1901 Series Operation Microscope Specification

A41.1901 Series Operating Microscopes, is the basic economical high quality series. It use fibre-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2.3x~12x, featured with flexible handling and easy operation. It is widely used in hospital for ENT (ear-nose-throat), dental, ophthalmology, gynecology, surgery, orthopedics and etc.

Model	A41.1901-A A41.1901-C A41.1901-CZ A41.1901-B A41.									A41.1	901-D			
Binocular Head					raight						45º Til			
Main Usage					Surger	У					, Ophth Gyneco	nalmolog logy	y,	
Total Magnification		With Objective F=200mm: 4.7x, 7.5x, 12x With Objective F=300mm: 3.0x, 5.0x, 8.0x												
Total Magnification (Optional)		With Objective F=250mm: 3.7x, 6.0x, 9.6x With Objective F=400mm: 2.3x, 3.8x, 6.0x												
Eyepiece		17.24x												
Head Magnification		6x												
Interpupillary Distance		50~80mm Adjustable												
Diopter				Both	Left & R	Right E	yetube D	iopter A	Adjusta	ble ±5D	)			
Zoom Body					3 5	Steps Z	Zoom: 0.0	5x,1.0x,	1.6x					
Objective					For Ear For Ear							Ophthalr Gynecol		
Objective (Optional)			F=	=400mi	m For T	hroat				F=250	0mm F	or Denta	l	
Focusing					Fi	ne Foc	using Ra	ange 10	mm					
Filter					Gr	reen, Y	ellow Fil	ters Bui	ilt-in					
Balancing Arm					2-Pa	art Arm	With Ur	iversal	Joints			_		
Stand	Five	: Colum Star Ba h Caste	ase		e Moun Iamp	t l	Column l Customri Custo	zed To	Five	art Colu e Star E 'ith Cas	Base	Table Mount Clamp		
Illumination System		(	Coaxia	l Illumi	nation, ?	10W L	ED, Brigł	ntness A	Adjusta	ble, >3	0000 L	ux		
Power Supply				Wi	de Ran	ge AC	100~240	V, DC12	2V 3A,	36W				
Video Adapter						Ν	lot Availa	able						
	A	<mark>1.190</mark> 1	1 Serie	es Ope	ration I	Micros	cope Op	otional	Acces	sories				
Objective	F=250n F=400n	nm, Fo	r A41.′			Z						A52.190 A52.190		
Mount	Table M Wall Mo											A54.190 A54.190		
	Band C	lamp. I	Fit 15-2	27" Scr	een. VE	ESA St	ng Arm \ andard 7 -80°~+90	′5x75xn	nm & 1	00x100		A54.191 112B	0-	
Monitor Mount	Adjusta	Monitor Mount: 1 Fix Arm And 1 Mechanic Spring Arm With Tension Adjustable. Band Clamp. Fit 15-27" Screen. VESA Standard 75x75xmm & A54.1910- 100x100mm. Load Capacity 0~8 Kgs, Swivel 180°, Tilt -80°~+90°, Rotation 312B 360°										0-		
	A4	1.1 <u>901</u>	Serie	s Oper	ation N	licros	cope Op	tic <u>al C</u> ł	naracte	ristics				
Focal Length (mr			=200m				Optional)		=300m			0mm (Oj	otional)	
Zoom Body	,				1.6x	1.0x	· · ·	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	
Total Magnificatio	on	12x	7.5x	4.7x	9.6x	6.0x	3.7x	8.0x	5.0x					
Linear Field (mm		15.8	25.3	40.6	19.7	31.6		23.6	37.9	60.8	31.5	50.5	2.3x 81.0	
Exit Pupil Dia.(mi		1.04	1.66	1.66	1.04	1.66	1.66	1.04	1.66	1.66	1.04	1.66	1.66	
Exit Pupil Distance	,							5.30						
Resolution (LP/m		67.0	44.5	29.7	60.0	35.4	27.0	47.2	31.5	23.6	35.0	27.0	19.8	

Operating Microscope, For ENT, Surgery, Dental, Ophthalmology, Gynecology

#### **OPTO-EDU**

Straight Binocular Head For ENT, Surgery Total Magnification 3x~12x, Step Zoom Body 0.6x, 1x, 1.6x Objectives F=200mm, 300mm, 400mm For Different Operating With 50:50 Beamspliter, With C-Mount To Connect Digital Camera Or LCD 2 Parts Column + Five Star Base With Caster



A41.1902 Series Operation Microscope Optical Characteristics												
Focal Length (mm)	F=200mm			F=250mm (Optional)			F	=300mr	n	F=400mm (Optional)		
Zoom Body	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x
Total Magnification	12x	7.5x	4.7x	9.6x	6.0x	3.7x	8.0x	5.0x	3.0x	6.0x	3.8x	2.3x
Linear Field (mm)	15.8	25.3	40.6	19.7	31.6	50.7	23.6	37.9	60.8	31.5	50.5	81.0
Exit Pupil Dia.(mm)	1.04	1.66	1.66	1.04	1.66	1.66	1.04	1.66	1.66	1.04	1.66	1.66
Exit Pupil Distance (mm)		15.30										
Resolution (LP/mm)	67.0	44.5	29.7	60.0	35.4	27.0	47.2	31.5	23.6	35.0	27.0	19.8

#### A41.1902 Series Operation Microscope Specification

A41.1902 Series Operating Microscopes, is the basic economical high quality series. It use fibre-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2.3x~12x, featured with flexible handling and easy operation. It is widely used in hospital for ENT (ear-nose-throat), dental, ophthalmology, gynecology, surgery, orthopedics and etc.

Model	A41.1902-C	A41.1902-D						
Binocular Head	Straight	45° Tilted						
Main Usage	ENT, Surgery	Dental, Ophthalmology, Gynecology						
Total Magnification	With Objective F=200mm: 4.7x, 7.5x, 12x With Objective F=300mm: 3.0x, 5.0x, 8.0x							
Total Magnification	With Objective F=2	50mm: 3.7x, 6.0x, 9.6x						
(Optional)	With Objective F=4	00mm: 2.3x, 3.8x, 6.0x						
Eyepiece	17	7.24x						
Head Magnification		6x						
Interpupillary Distance	50~80mm Adjustable							
Diopter	Both Left & Right Eyetul	be Diopter Adjustable ±5D						
Zoom Body	3 Steps Zoom	n: 0.6x,1.0x,1.6x						
Objective	F=200mm For Ear, Nose F=300mm For Ear, Nose	F=200mm For Ophthalmology F=300mm For Gynecology						
Objective (Optional)	F=400mm For Throat	F=250mm For Dental						
Focusing	Fine Focusin	g Range 10mm						
Filter	Green, Yellov	w Filters Built-in						
Balancing Arm	2-Part Arm With Universal Joints, Cou	unterweight Adjustable And Lockable						
Stand	2-Part Column + Five	e Star Base With Caster						
Illumination System	Coaxial Illumination, 10W LED, I	Brightness Adjustable, >30000 Lux						
Power Supply	Wide Range AC100~	240V, DC12V 3A, 36W						
Video Adaptor	50:50 Beamsp	olitter (A55.1906)						
Video Adapter	C-Mount 0.3x For 1/3" Digital Camera (A55.1903)							

	A41.1902 Series Operation Microscope Optional Accessories	
Objective	F=250mm, For A41.1902-D	A52.1901-250
Objective	F=400mm, For A41.1902-C	A52.1901-400
Photo Adapter	SLR Camera Adapter For NIKON DSLR Or CANON SLR	A55.1904
Head	Teaching Head, Demonstrator	A55.1910
Mount	Table Mount Clamp	A54.1901-T
	Wall Mount Bracket	A54.1901-W
Monitor Mount	Monitor Mount: One fix arm and one gas spring arm with tension adjustable. Band clamp. Fit 15-27 inch screen. VESA standard: 75x75xmm & 100x100mm. Load capacity: 0-8 Kgs. Swivel:180°. Tilt: -80°~+90°. Rotation:360°	A54.1910-112B
	Monitor Mount: One fix arm and one mechanical <b>spring arm</b> with tension adjustable. Band clamp. Fit 15-27 inch screen. VESA standard: 75x75xmm & 100x100mm. Load capacity: 0-8 Kgs. Swivel:180°. Tilt: -80°~+90°. Rotation:360°	A54.1910-312B

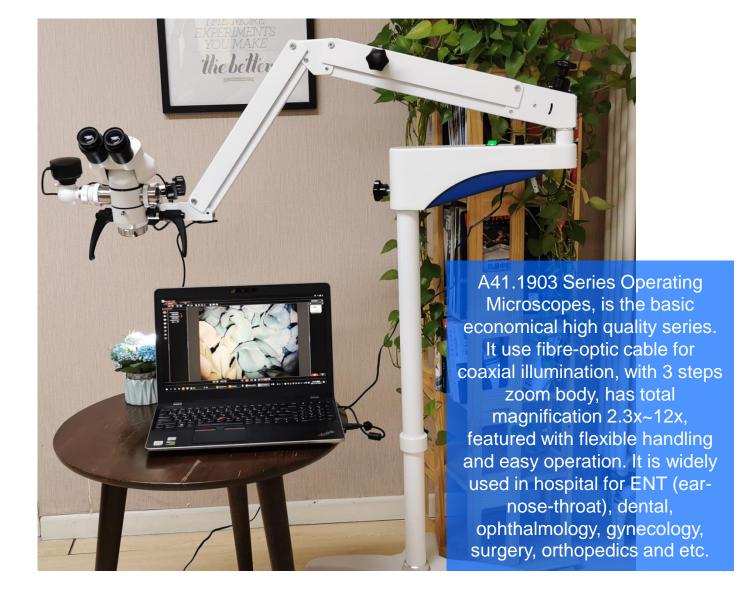
Operating Microscope, Step Zoom 4.8x~16x, For Dental, ENT, Ophthalmology, Gynecology





8x Tilting 0~180° Binocular For Dental, ENT, Ophthalmology, Gynecology Total Magnification 4.8x~16x, Step Zoom Body 0.6x, 1x, 1.6x Objectives F=200mm, 250mm, 300mm, 400mm For Different Operating 10W LED High Brightness Light Source 2 Parts Column + Five Star Base With Caster

#### **Product Specification**



Model	A41.1903						
Binocular Head	Tilting 0~180°						
Main Usage	Dental, ENT, Ophthalmology, Gynecology						
Total Magnification	With Objective F=200mm: 6.0x, 10x, 16x						
	With Objective F=250mm: 4.8x, 8.0x, 12.8x						
Total Magnification	With Objective F=300mm: 4.0x, 6.7x, 10.7x						
(Optional)	With Objective F=400mm: 3.0x, 5.0x, 8.0x						
Eyepiece	WF12.5x/20mm						
Head Magnification	8x						
Interpupillary Distance	50~80mm Adjustable						
Diopter	Both Left & Right Eyetube Diopter Adjustable ±7D						
Zoom Body	3 Steps Zoom: 0.6x,1.0x,1.6x						
Objective	F=200mm For Ear, Nose, Ophthalmology						
	F=250mm For Dental						
Objective (Optional)	F=300mm For Ear, Nose						
	F=400mm For Throat						
Focusing	Fine Focusing Range 10mm						
Filter	Green, Yellow Filters Built-in						
Balancing Arm	2-Part Arm With Universal Joints, Counterweight Adjustable And Lockable						
Stand	2-Part Column + Five Star Base With Caster						
Illumination System	Coaxial Illumination, 10W LED, Brightness Adjustable, >40000 Lux						
Power Supply	Wide Range AC100~240V, DC12V 3A, 36W						

	A41.1903 Series Operation Microscope Optional Accessories					
Eyepiece	WF10x/23mm	A51.1901-1023				
	F=300mm	A52.1901-300				
	F=400mm	A52.1901-400				
	F=200mm/250mm/300mm Zoom,					
	Connection Thread:					
		A52.1902-01				
Objective	M47x0.75mm / M51x0.75mm / M56x0.75mm, Or					
Dbjective	Customized According To Customer Requirements					
	F=200mm/250mm/300mm Zoom, With Splash Cover					
	Connection Thread:					
		A52.1902-02				
	M47x0.75mm / M51x0.75mm / M56x0.75mm, Or					
	Customized According To Customer Requirements	-				
	50:50 Beamsplitter	A55.1906				
Adapter		A55.1903				
		A55.1904				
	Teaching Head, Demonstrator	A55.1910				
	Tiltable Head,					
	Inclinable Angle: 0-180°,					
		A53.1903-01				
	Magnification 8x, F=160mm, Distance of Center 22mm. Optional					
Head	Eyepiece: 10x/23mm					
	Tiltable Head, With PD Adjust Knob					
	Inclinable Angle: 0-180°,					
	Eyepiece 12.5X/20mm, Interpupillarry Distance 50~80mm,	A53.1903-02				
	Magnification 8x, F=160mm, Distance of Center 22mm. Optional					
	Eyepiece: 10x/23mm					
Nount		A54.1901-T				
	Wall Mount Bracket	A54.1901-W				
	Monitor Mount: 1 Fix Arm And 1 Gas Spring Arm With Tension					
	Adjustable. Band Clamp. Fit 15-27" Screen. VESA Standard 75x75xmm	A54.1910-112B				
	& 100x100mm. Load Capacity $0$ ~8 Kgs, Swivel 180°, Tilt -80°~+90°,					
Monitor Mount	Rotation 360°					
	Monitor Mount: 1 Fix Arm And 1 Mechanic Spring Arm With Tension					
	Adjustable. Band Clamp. Fit 15-27" Screen. VESA Standard 75x75xmm	A54 1010-212P				
	a Toux Tourinn. Load Capacity 0~8 Kgs, Swiver 180°, Till -80°~+90°,					
	Rotation 360°					

A41.1903Series Operation Microscope Optical Characteristics												
Eyepiece		WF12.5x/20mm										
Focal Length (mm)	F	=200mr	n	F	=250mr	n	F=300	mm (Op	tional)	F=400mm (Optional		
Zoom Body	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x
Total Magnification	16x	10x	6.0x	12.8x	8.0x	4.8x	10.7x	6.7x	4.0x	8.0x	5.0x	3.0x
Linear Field (mm)	15.0	24.0	40.0	19.0	30.0	50.0	23.0	37.0	60.0	30.0	48.0	80.0
Diameter of Spot (mm)		57.00			71.00			86.00			113.00	
Exit Pupil Distance (mm)						20	.00					
Eyepiece						WF10x	:/23mm					
Focal Length (mm)	F	=200mr	n	F	=250mr	n	F=300	mm (Op	tional)	F=400	mm (Optional)	
Zoom Body	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x
Total Magnification	12.8x	8.0x	4.8x	10.2x	6.4x	3.8x	8.5x	5.3x	3.2x	6.4x	4.0x	2.4x
Linear Field (mm)	16.0	26.5	43.0	20.0	33.0	53.0	24.5	39.5	64.5	32.0	52.5	85.5
Diameter of Spot (mm)	57.00			71.00			86.00			113.00		
Exit Pupil Distance (mm)						25	.00					

Operating Microscope, One Head 0-200°, Manual Zoom, 2.7x-23x, For Dental





Halogen Light Source



**LED Light Source** 



1 People 1 Binocular Head, Titable 0-200°, Interpupillary 53-76mm, Diopter +/-6D Manual Continous Zoom 1:6, Total Manification 2.3x~27x, Zoom Objective F=180-300mm LED High Brightness Light Source, Max 80000Lux, Light Spot Dia.80mm Built-in Digital Camera, Control Handle To Take Picture/Video One Hand Control Stop Freely With 120° Balance Arm, Four Feets Stand Max Extend Range 1250mm

#### **Optional Accessories**

Accessories					
Auxiliary Lens F=200/300/350/400/450	A52.1941				
Zoom Lens F=180-300mm	A52.1942				
Zoom Lens F=200-500mm A52.1942					
Wedge Light Splitter, 1 Port	A55.1941				
Light Splitter, 2 Ports	A55.1942				
SLR Camera Adapter	A55.1943				
Mobile Phone Adapter & Holder	A55.1944				
C-Mount For Digital Camera	A55.1945				

Using American ultra-long-life medical LED white light source, color temperature 5500K, high color rendering index, high brightness, strong reduction, long-term use without fatigue, and more suitable for dental surgery needs compared with traditional halogen lamps. LED energy consumption is low, the service life can be as long as 100,000 hours



**Normal Light Spot** 





**Green Light Spot** 

Built-in yellow and green color filters, normal, yellow, and green color filters can be adjusted through the built-in dial button. The yellow spot can prevent the resin material from curing too fast, and the green spot can more clearly see the blood vessels in the blood environment

#### **Specification**

A41.1905 Opera	A41.1905 Operating Microscope, One Head 0-200°, Manual Zoom, 2.7x-23x, For Dental						
Eyepieces	Magnification 12.5x, Pupil Distance Adjustable Range53mm~76mm, Diopter Adjustment Range +6D ~ -6D						
Binocular Tube	High Brightness 0~200 Binocular Tube						
Magnification	1:6 Manual Continuous Zoom, Magnification 2.3~27x; Field Of View Φ 89.6 Φ 8mm						
X-Y Movement Device	X Direction Swing 45 , Y Direction Swing 45"						
Coaxial Illumination	LED Cold Light ,IIImination Diameter Of Light Spot Φ80mm, Illumination Intensity 80000lux Build-in Small-spot, Both Blue And Yellow Light Filter						
Objectives	180mm -300mm Zoom Lens(Optional F=175mm,200mm350mm,400mm etc)						
Maximum Length Of Arm	1100mm						
New Stand	Swing Angle Of The Carrier Arm 0300 ,Height From Objective To Floor730mm <h<1250mm< td=""></h<1250mm<>						
Weight	107Kg						

Picture	Catalogue. No.	Dental	ENT Ear, Nose, Throat	Ophthalm -ology	Orthopedi cs Hand Surgery Chest Surgery	Burn & Plastic	Androlog y Gynecolo gy Genitouri n-ary	Animal Anatomy	Neuro- surgery Brain Surgery
	A41.1905	•							

Picture	Catalogue. No.	Dental	ENT Ear, Nose, Throat	Ophthalm- ology	Orthopedic s Hand Surgery Chest Surgery	Burn & Plastic	Andrology Gynecolog y Genitourin- ary	Animal Anatomy	Neuro- surgery Brain Surgery
	A41.1901-A		•						
	A41.1901-B	•		•			•		
	A41.1901-C		•						
	A41.1901-CZ		•						
	A41.1901-D	•		•			•		
	A41.1902-C		•						
	A41.1902-D	•		•			•		
	A41.1903	•	•	•			•		
	A41.1940				•	•	•	•	
	A41.1941				•	•	•	•	

Picture	Catalogue. No.	Dental	ENT Ear, Nose, Throat	Ophthalm- ology	Orthopedic s Hand Surgery Chest Surgery	Burn & Plastic	Andrology Gynecolog y Genitourin- ary	Animal Anatomy	Neuro- surgery Brain Surgery
	A41.1942				•	•	•	•	
	A41.1950		•						•
	A41.1951		•						•
	A41.1952		•						•
	A41.3400			•					
	A41.3401			•					
	A41.3402			•					
	A41.3403			•					
	A41.3404		•	•	•		•		
A.	A41.3405			•	•				

Picture	Cata. No.	Total Magnificatio n	Head C-Mount	Body Magnificatio n	Standard Objective	Optional Objective	Light Source	Stand Foot Switch Optional	Package	Application
	A41.1901-A	3x~12x	One Heac 90°	Manual Step 0.6x,1x,1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	Ear, Nose,Throat
CONCERNING AND	A41.1901-B	3x~12x	One Heac 45°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	5 Star Stand Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	Dental Gynecology Ophthalmology
	A41.1901-C	3x~12x	One Heac 90°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	Ear, Nose,Throat
	A41.1901-CZ	2 3x~12x	One Heac 90°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Pole Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	Ear, Nose,Throat
	A41.1901-D	3x~12x	One Heac 45°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn	Dental Gynecology Ophthalmology
BHO A	A41.1902-C	3x~12x	One Heac 90° Beam Splitter C-Mount	Manual Step 0.6x,1x,1.6x			Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Ear, Nose,Throat
CONTRACTOR OF THE OWNER OWNER OF THE OWNER	A41.1902-D	3x~12x	One Heac 45° Beam Splitter C- Mount	Manual Step		F=400mm	Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Dental Gynecology Ophthalmology
	A41.1903	4.8x~16x	One Heac 0-180°	Manual Step 0.6x,1x,1.6x		F=300mm F=400mm	Coaxial Light	5 Star Stand Beam Splitter Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Ear, Nose,Throat Dental Gynecology Ophthalmology
	A41.1940	2x-30x	Dual Head	Motor Zoom 1:6	F=200mm	F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	8 Direction Foot Switch X/Y/Z/Zoom Beam Splitter C-Mount	164Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy
	A41.1941	6x10x16x	Dual Head	Manual Step 0.6x,1x,1x,1 6x	F=200mm	F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	117Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy

Picture	Cata. No.	Total Magnificatio n	Head C-Mount	Body Magnificatio n	Standard Objective	Optional Objective	Light Source	Stand Foot Switch Optional	Package	Application
	A41.1942	6x10x16x	Dual Head	Manual Step 0.6x,1x,1x,1. 6x		F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	6 Direction Foot Switch X/Y/Z 3 Heads Beam Splitter C-Mount	107Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy
	A41.1950	3x~16x	Dual Head Beam Splitter	Motor Zoom 3x~16x		F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	8 Direction Foot Switch X/Y/Z/Zoom C-Mount	164Kg	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.1951	2x~12.5x	One Head 90°	Manual Zoom 2x~12.5x	F=300mm	F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	107Kgs	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.1952	2x~12.5x	Dual Head	Manual Zoom 2x~12.5x	F=300mm	F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	107Kgs	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.3400	4-24x	One Head 30-90°	Motor Zoom 4x~24x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	8 Direction Foot Switch X/Y/Z/Zoom	2 Cartons 0.418CB M 87Kg	Ophthalmology
	A41.3401	4.6x~27x	Dual Head	Motor Zoom 4.6x~27x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial 20° Oblique	8 Direction Foot Switch X/Y/Z/Zoom	5 Cartons 0.756CB M 215Kg	Ophthalmology
	A41.3402	4x-25x	Dual Head	Motor Zoom 4x-25x	F=200mm	F=350mm	6°+0° Coaxial 20° Oblique Slit Lamp	8 Direction Foot Switch X/Y/Z/Zoom	5 Cartons 0.786CB M 213Kg	Ophthalmology
	A41.3403	5.3x8x12x	One Head 45°	Manual Step 5.3x8x12x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	2 Direction Foot Switch X/Y	1 Carton 0.2CBM 41Kg	Ophthalmology
	A41.3404	6x10x16x	One Head 45°	Manual Step 6x10x16x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	Table Mount & Working Table	2 Cartons 0.283CB M 61Kg	Ophthalmology Ear, Nose,Throat Surgery Gynecology
	A41.3405	2.7x-25x,	Dual Head Teach Head Beam Splitter C- Mount		F=200mm F=250mm F=350mm	F=175mm	6°+0° Coaxial 25° Oblique Slit Lamp Red Reflect For Cataract	6 Direction Foot Switch X/Y/Z	5 Cartons 0.727CB M 210Kg	Ophthalmology Cataract Surgery Surgery

Operating Microscope, Dual Head, For Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy



2 People 2 Binocular Head Same Magnification Same View Field Manual 4 Steps Zoom Body 0.6x,1.0x, 1.0x, 1.6x, Parallel Light System Motorized Foot Switch Control Focusing Up/Down, X/Y Moving And Zoom In/Out Four Feet With Locking Wheels, Max Extended Length 1250mm Coaxial Illumination, Light Spot Dia.50mm, Max Brightness 100000 Lux



**Continuous Magnification** Electric several manual stepless zoom, the magnification can be continuously adjusted from 2-30x

#### A41.1940 Surgical Operation Microscope Features

**A41.1940** Series Operating Microscopes, is advanced high quality series. It use fibre-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2x~30x, featured with Motorized Focusing, it is widely used in hospital for Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy and etc.

--2 People 2 Binocular Head Same Magnification Same View Field

--Manual 4 Steps Zoom Body 0.6x,1.0x, 1.0x, 1.6x, Parallel Light System

--8 Directions Motorized Foot Switch Control Focusing Up/Down, X/Y Moving And Zoom In/Out

--Four Feet With Locking Wheels, Max Extended Length 1250mm

--Coaxial Illumination, Light Spot Dia.50mm, Max Brightness 100000 Lux

#### A41.1940 Surgical Operation Microscope Specification

Main Usage	Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy
	Main Head Binocular, 45° Inclined, Interpupillary Distance 53~76mm
2 Heads 2 People	Assitant Head Binocular, 45° Inclined, Interpupillary Distance 53~76mm,
	180° Oppsite To Main Head, Same Magnification Same View Field As Main Head
Diopter	Both Left & Right Eyetube Diopter Adjustable ±6D
Eyepiece	WF12.5x
Zoom Body	Motorized Continues Zoom 1:6, Parallel Light System
Objective	F=200mm
Total Magnification	2x~30x
View Field	Dia.55mm~6mm
Focusing	Motorized Focuing Controled By Foot Switch,
	Focusing Range +/-25mm, Focusing Speed 33s/Full Range, Auto Return To Zero
	8 Directions X/Y/Z + Zoom In/Out Motorized Foot Switch
	Control Focusing Up/Down, Moving Range 50mm
Foot Switch	Control X/Y Moving, Moving Range 60mm
	Control Magnification Zoom In/Out
	Water Proof Design
	Luxury Stand With Control Electrical Parts Built-in
Stand	Max Extended Length 1250mm
Otariu	Max Rotatable Angle Of Arm 0~300°
	Distance Between Objective And Gound Surface 800mm~1250mm
Illumination	Coaxial Illumination, Light Spot Dia.50mm, Max Brightness 100000 Lux
Weight	164Kgs

	Optional Accessories	Cata. No
	F=175mm	A52.1941-175
Objective	F=250mm	A52.1941-250
	F=300mm	A52.1941-300
	F=350mm	A52.1941-350
	Zoom F=180~300mm	A52.1941-1830
Adapter	Beamsplitter	A55.1941
	C-Mount 0.3x For 1/3" Digital Camera	A55.1942

Operating Microscope, Dual Head, For Neurosurgery, Brain Surgery, ENT



2 People 2 Binocular Motorized Swing Head In X Direction +/-45°, In Y Direction +90° Motor Zoom 3x~16x Controled By Foot Switch Or Manual Switch Parallel Light System Motorized Foot Switch Control Zoom, Focusing Up/Down, X/Y Moving Stand Max Extended Length 1200mm Arm Swing 0~300° Dual Optical Fiber Coaxial Light Spot Dia.78mm Max Brightness 10000 Lux



A52.1941 Objective



A52.1941-1830



A55.1951



A55.1952

#### A41.1950 Surgical Operation Microscope Features

**A41.1950** Series Operating Microscopes, is advanced high quality series. It use fibre-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2x~30x, featured with Motorized Focusing, it is widely used in hospital for Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy and etc.

--2 People 2 Binocular Motorized Swing Head In X Direction +/-45°, In Y Direction +90°

--Motor Zoom 3x~16x Controled By Foot Switch Or Manual Switch Parallel Light System

--8 Directions Motorized Foot Switch Control Focusing Up/Down, X/Y Moving And Zoom In/Out

--Stand Max Extended Length 1200mm Arm Swing 0~300°

--Dual Optical Fiber Coaxial Light Spot Dia.78mm Max Brightness 100000 Lux

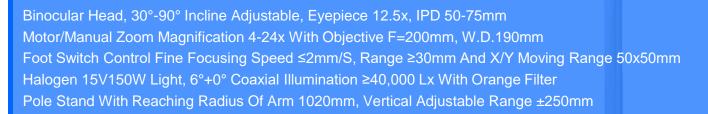
	A41.1950 Surgical Operation Microscope Specification
Main Usage	Neurosurgery, Brain Surgery, ENT
	Main Head Binocular 30°~90° Angle Adjustable, Interpupillary Distance 55~75mm By Knob
Head	Assitant Head Binocular, 45° Inclined, Interpupillary Distance 56~76mm, 360° Rotatable For Easy View, Same Magnification Same View Field As Main Head
	Motorized <b>Swing Head</b> In X Direction +/-45°, In Y Direction +90°, Can Stop At Any Angle
Adapter	Beamsplitter Included 2 Ports, For Assistant Head And C-Mount
Diopter	Both Left & Right Eyetube Diopter Adjustable ±6D
Eyepiece	WF12.5x
Zoom Body	Motorized Continues Zoom 1:6, Parallel Light System
Objective	F=300mm
Total Magnification	3x~16x
View Field	Dia.74mm~12mm
Focusing	Motorized Focuing Controled By Foot Switch, Focusing Range +/-25mm, Focusing Speed 33s/Full Range, Auto Return To Zero
Foot Switch	8 Directions X/Y/Z + Zoom In/Out Motorized Foot Switch Control Focusing Up/Down, Moving Range 50mm Control X/Y Moving, Moving Range 60mm Control Magnification Zoom In/Out Water Proof Design
Stand	Luxury Stand With Control Electrical Parts Built-in Max Extended Length 1200mm Max Rotatable Angle Of Arm 0~300° Distance Between Objective And Gound Surface 800mm~1250mm
Illumination	Coaxial Halogen Illumination, Light Spot Dia.78mm, Max Brightness 100000 Lux
Weight	164Kgs

	Optional Accessories	Cata. No
	F=175mm	A52.1941-175
Objective	F=250mm	A52.1941-250
	F=300mm	A52.1941-300
	F=350mm	A52.1941-350
	Zoom F=180~300mm	A52.1941-1830
Switch	Handle Switch For Focusing & Zoom	A55.1951
Adapter	C-Mount 0.3x For 1/3" Digital Camera	A55.1952

# A41.3400

Operating Microscope, Zoom 4x-24x, Foot SwitchPhthalmology, ENT, Surgery







OPTO-EDU

A41.3400 Operating Mi	A41.3400 Operating Microscope, Ophthalmology, Otorhinolaryngology, Surgery					
Head	Binocular					
Eyepiece Magnification	12.5×/16mm					
Visual Angle Of Eyepiece	30°-90°(Eyepiece Moving Between 0°-180° Is Optional)					
Objective Lens	F=200(F=175/250/300 Is Optional)					
Working Distance	190mm					
Magnification For Main Microscope	4x-24x					
Diameter Of Field	41.5mm-7.5mm					
Diopter Adjustment	±6D					
Pupil Distance	50mm-75mm					
Maximal Resolution	119 LP/mm					
Illumination Source	15V/150W, Medical Cold-refiection Halogen Bulb					
Illumination Type	6°+0°Coaxial Illumination Of Cold Light Source					
Coaxial Illumination	≥40000lx					
Filters	Orange Filter(Cobalt Filter Is Optional)					
Reaching Radius Of Arm	1020mm					
Adjustable Vertical Range	250mm					
Fine Focusing Speed And Range	≤2mm/s,≥30mm					
Speed For X/Y And Range	≤2mm/s,50mm×50mm					
Input Voltage	AC220V±22v/50Hz±1Hz, AC110v±11v/60Hz±1Hz					
Power	200VA					
Fuse	AC 250V T4.0A, AC 125V T8.0A					
Electrical Safety Standard	Executive Standard:GB9706.1-2007,Class I					
Packing Volume	0.418m3, 2cartons					
Total Weight	87kg					

## A41.3401

Operating Microscope, Dual Head, Motor Zoom, 4.6x~27x, 8 Directions Foot Switch, For Phthalmology

#### OPTO-EDU

Dual Binocular Head, Eyepiece 12.5x/18mm, IPD 45-80mm, Diopter ±7 Motor/Manual Zoom Magnification 4.6x-27x With Objective F=200mm, W.D.170mm, 8 Directions Foot Switch Control Fine Focusing Speed ≤2mm/S, Range ≥30mm And X/Y Moving Range 50x50mm Reaching Radius of Arm 1230mm, Vertical Adjustable Range 880-1420mm; Fine Focusing ≤2mm/s,

OPTOEDU

≥50mm, XY Range 50x50mm

Halogen 12V100W; 6°Coaxial 65000lx & 26°Oblique Illumination, Brightness Adjustable Level 1-9 60000lx

### **Product Specification**

#### A41.3401 Operating Microscope, Ophthalmology, Otorhinolaryngology, Surgery

Head	Double Binocular
Eyepiece Magnification	12.5×/18mm
Objective Lens	F=200
Working Distance	170mm
Magnification For Main Microscope	4.6x-27x Motorized And Manual Control Continuous Magnification
Magnification For Assistant Microscope	6x,10x, 16x
Diameter Of Field	46mm ~ 8.5mm
Diopter Adjustment	±7D
Pupil Distance	50mm-75mm (Main Microscope Is 45mm -80mm)
Maximal Resolution	119 LP/mm
Focusing Range For Assistant Microscope	≥30mm
Illumination Source	12V/100W,Cold Reflection Halogen Lamp For Medical Use
Illumination Type	6°+0°Coaxial Illumination Of Cold Light Source, 26°Oblique Illumination
Coaxial Illumination	≥65000lx,1 ~ 9level, Panel Operated
Oblique Illumination	≥60000lx,1 ~ 9level, Panel Operated
Reaching Radius Of Arm	1230mm
Adjustable Vertical Range	880mm ~ 1420mm
Fine Focusing Speed And Range	≤2mm/s, ≥40mm
Speed For X/Y And Range	≤2mm/s,50mm×50mm
Input Voltage	AC220V±22V/50Hz±1Hz, AC110V±11V/60Hz±1Hz
Power	170VA
Fuse	AC250V T4.0A , AC1250V T8.0A
Electrical Safety Standard	Executive Standard:GB9706.1-2007,Class I
Packing Volume	0.756m3, 5cartons
Total Weight	215kg

			ENT		Orthopedic s		Andrology Gynecolog		Neuro-
Picture	Catalogue. No.	Dental	Ear, Nose, Throat	Ophthalm- ology	Hand Surgery Chest	Burn & Plastic	y Genitourin-	Animal Anatomy	surgery Brain Surgery
CPTOEDU					Surgery		ary		
	A41.1901-A								
	A41.1501 A								
~ <i>n</i>	A41.1901-B	•		•			•		
COPTOLEDU									
	A41.1901-C		•						
(9970-EDU)									
	A41.1901-CZ		•						
5	A41.1901-D	•		•			•		
*	A41.1902-C		•						
-	A41.1902-D	•		•			•		
· · · ·									
	A41.1903	•	•	•			•		
	A 41 40 40								
il	A41.1940				•	•	•	•	
	A41.1941				•	•	•	•	

Picture	Catalogue. No.	Dental	ENT Ear, Nose, Throat	Ophthalm- ology	Chest	Burn & Plastic	Andrology Gynecolog y Genitourin- ary	Animal Anatomy	Neuro- surgery Brain Surgery
	A41.1942				Surgery •	•	•	•	
	A41.1950		•						•
	A41.1951		•						•
	A41.1952		•						•
	A41.3400			•					
	A41.3401			•					
	A41.3402			•					
	A41.3403			•					
	A41.3404		•	•	•		•		
	A41.3405			•	•				

Picture	Cata. No.	Total Magnificatio n	Head C-Mount	Body Magnificatio n	Standard Objective	Optional Objective	Light Source	Stand Foot Switch Optional	Package	Application
	A41.1901-A	3x~12x	One Head 90°	Manual Step 0.6x,1x,1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	Ear, Nose,Throat
CONCERNING AND	A41.1901-B	3x~12x	One Head 45°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	5 Star Stand Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	Dental Gynecology Ophthalmology
	A41.1901-C	3x~12x	One Head 90°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	Ear, Nose,Throat
	A41.1901-CZ	3x~12x	One Head 90°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Pole Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	Ear, Nose,Throat
	A41.1901-D	3x~12x	One Head 45°	Manual Step 0.6x,1x,1.6x		F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn	Dental Gynecology Ophthalmology
Bereiten and Ber	A41.1902-C	3x~12x	One Head 90° Beam Splitter C-Mount	Manual Step 0.6x,1x,1.6x			Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Ear, Nose,Throat
COTOLSKI ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	A41.1902-D	3x~12x	One Head 45° Beam Splitter C- Mount	Manual Step		F=400mm	Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Dental Gynecology Ophthalmology
	A41.1903	4.8x~16x	One Head 0-180°	Manual Step 0.6x,1x,1.6x		F=300mm F=400mm	Coaxial Light	5 Star Stand Beam Splitter Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Ear, Nose,Throat Dental Gynecology Ophthalmology
	A41.1940	2x-30x	Dual Head	Motor Zoom 1:6	F=200mm	F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	8 Direction Foot Switch X/Y/Z/Zoom Beam Splitter C-Mount	164Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy
	A41.1941	6x10x16x	Dual Head	Manual Step 0.6x,1x,1x,1 6x	F=200mm	F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	117Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy

Picture	Cata. No.	Total Magnificatio n	Head C-Mount	Body Magnificatio n	Standard Objective	Optional Objective	Light Source	Stand Foot Switch Optional	Package	Application
	A41.1942	6x10x16x	Dual Head	Manual Step 0.6x,1x,1x,1. 6x		F=175mm F=250mm F=300mm F=350mm F=180~300mm	Coaxial Light	6 Direction Foot Switch X/Y/Z 3 Heads Beam Splitter C-Mount	107Kgs	Orthopedics Hand & Chest Burn & Plastic Andrology Gynecology Genitourinary Animal Anatomy
	A41.1950	3x~16x	Dual Head Beam Splitter	Motor Zoom 3x~16x		F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	8 Direction Foot Switch X/Y/Z/Zoom C-Mount	164Kg	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.1951	2x~12.5x	One Head 90°	Manual Zoom 2x~12.5x	F=300mm	F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	107Kgs	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.1952	2x~12.5x	Dual Head	Manual Zoom 2x~12.5x	F=300mm	F=175mm F=200mm F=250mm F=350mm F=180~300mm	Coaxial Light	2 Direction Foot Switch X/Y Beam Splitter C-Mount	107Kgs	Neurosurgery Brain Surgery Ear, Nose,Throat
	A41.3400	4-24x	One Head 30-90°	Motor Zoom 4x~24x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	8 Direction Foot Switch X/Y/Z/Zoom	2 Cartons 0.418CB M 87Kg	Ophthalmology
	A41.3401	4.6x~27x	Dual Head	Motor Zoom 4.6x~27x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial 20° Oblique	8 Direction Foot Switch X/Y/Z/Zoom	5 Cartons 0.756CB M 215Kg	Ophthalmology
	A41.3402	4x-25x	Dual Head	Motor Zoom 4x-25x	F=200mm	F=350mm	6°+0° Coaxial 20° Oblique Slit Lamp	8 Direction Foot Switch X/Y/Z/Zoom	5 Cartons 0.786CB M 213Kg	Ophthalmology
	A41.3403	5.3x8x12x	One Head 45°	Manual Step 5.3x8x12x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	2 Direction Foot Switch X/Y	1 Carton 0.2CBM 41Kg	Ophthalmology
	A41.3404	6x10x16x	One Head 45°	Manual Step 6x10x16x	F=200mm	F=175mm F=250mm F=350mm	6°+0° Coaxial	Table Mount & Working Table	2 Cartons 0.283CB M 61Kg	Ophthalmology Ear, Nose,Throat Surgery Gynecology
	A41.3405	2.7x-25x,	Dual Head Teach Head Beam Splitter C- Mount		F=200mm F=250mm F=350mm	F=175mm	6°+0° Coaxial 25° Oblique Slit Lamp Red Reflect For Cataract	6 Direction Foot Switch X/Y/Z	5 Cartons 0.727CB M 210Kg	Ophthalmology Cataract Surgery Surgery

### A41.3405

**Operating Microscope, Ophthalmology, Hand & Orthopedic Surgery** 



2 People 2 Binocular Head, Assistant Head Can Rotate To Opsite Position Of Main Head Main Body With Built-in Beam Splitter Can Connect CCD Camera & Teaching Head Equiped With 3 Objectives F=200mm/250mm/350mm Eyepiece 12.5x/18mm Main Microscope Magnification 2.7x-25x, Assistant Microscope Magnification 4.2x-16x, W.D.190-290mm 6°+0° Coaxial Illumination ≥50000Lux, 25° Oblique Illumination ≥45000Lx Can Work As Split Illumination

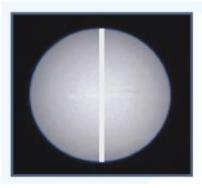


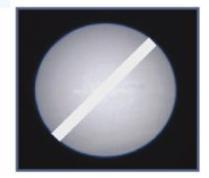


Assistant microscope can be rotated to opponent microscope



Equipped with three different objective lenses(f200/f250/f300) and applicable in ophthalmic surgery, orthopedic surgery and hand surgery.





Oblique illumination can also be used as slit illumination and slit width is adjustable.

A41.3405 Operating Micro	oscope, Ophthalmology, Hand & Orthopedic Surgery
Head	2 People 2 Binocular Heads Main Body With Built-in Beam Splitter Can Connect CCD
	Camera & Teaching Head
Eyepiece Magnification	12.5×/18mm
Magnification For Main Microscope	F200: 4x, 6x, 10x, 16x, 25x F250: 3.2x, 5x, 8x, 12.8x, 20x F300: 2.7x, 4.2x, 6.7x, 11x, 17x
Magnification For Assitant Microscope	F200: 6x, 10x, 16x F250: 5x, 8x, 12.8x F300: 4.2x, 6.7x, 11x
Working Distance	190-290mm
Diopter Adjustment	±7D
Pupil Distance	50mm-75mm
Illumination Source	12V/100W,Cold Reflection Halogen Lamp For Medical Use
Illumination Type	6°+0° Coaxial Illumination Of Cold Light Source, 25° Oblique Illumination (It Can Be Used As Slit Illumination) Slit Width Is Adjustable, And It's Angle Is 360° Rotation
Coaxial Illumination	≥50000lx
Oblique Illumination	≥45000lx
Reaching Radius Of Arm	1040mm
Adjustable Vertical Range	850mm ~ 1350mm
Fine Focusing Speed And Range	≤2mm/s,≥50mm
Speed For X/Y And Range	≤2mm/s,50mm×50mm
Input Voltage	AC220V±22V/50Hz±1Hz, AC110V±11V/60Hz±1Hz
Power	330VA
Fuse	AC250V T4.0A , AC1250V T8.0A
Electrical Safety Standard	Executive Standard:GB9706.1-2007,Type I
Packing Volume	0.727m <sup>3</sup> , 5 Cartons
Total Weight	210Kg

### **T11.1509** Telescope, F750, D150





Reflect Telescope Equatorial Newtonian Reflector Aperture 150mm (6") Focal Length: 750mm Finderscope 6x30 Standard Eyepiece Dia.31.7mm PL6.5mm PL25mm With Moon Filter, Sun Filter, 2x Barlow Lens, EQ3 Equatorial Telescopic Aluminum Tripod, Color Box Packing

	T11.1509 Telescope, F750, D150					
Objective Mirror	Concave Mirror, Hard-coated					
Lens Clear Aperture	150mm					
Focal Length	750mm					
Resolving Power	0.93"					
Faintest Discernible Stars	12M					
Magnification	30x, 115x					
Eyepiece	PL6.5mm, PL25mm					
Sight Scope	6×30mm					
Mount	Equatorial					
Tripod	Aluminum					
Accessories	Moon Filter(31.75mm), Flexible Cables(Two Pieces), Balance Weight, Accessory Tray, New 2x Barlow Lens					
Focusing	Rack And Pinion Focusing					
Tube Length	645mm					
Total Wight	17.8kg					

Eveniese Megnification		Evit Dunil Aporturo	Brightness	Visual Field			
Eyepiece Magnification	Exit Pupil Aperture	Brightness	Actual	Apparent			
PL25mm	30x	5mm	25	1°36'	40°		
PL6.5mm	115x	1.5mm	2.25	26'	41°		

### **T11.1510** Telescope, F700, D76



Reflect Telescope Reflector Aperture 76mm (3") Focal Length 700mm Finderscope 5x24 Eyepiece Dia. 24.5mm SR4mm, H12.5mm, H20mm With 2x Barlow Lens Telescopic Aluminum Tripod, Color Box Packing



T11.1510 Telescope, F700, D76				
Туре	Refractor			
Lens Clear Aperture	76mm(3")			
Focal Length	700mm(f/9)			
Eyepiece	SR4mm, H12.5mm, H20mm(0.965"), Dia.24.5mm			
Finder Scope	5x24mm			
Accessories	2x Barlow Lens			
Equatorial	AZ Mount			
Tripod	Adjustable Aluminum Tripod			
Focusing	Rack And Pinion Focusing			
Tube Length	645mm			
Total Wight	17.8kg			
Package	91.5x21.5x25cm Color Box, 4 pcs/Carton Size 75x49x53mm, Weight 24/22Kg			

### T11.1511 Telescope, Refraction, F400, D70



Refraction Telescope Lens Aperture 70mm Focal Length 400mm Finderscope 5x24, With 45° Erect Prism Eyepiece: Dia.31.7 K6mm, K25mm Telescopic Aluminum Tripod With Color Box Packing



	T11.1511 Telescope, F400, D70				
Туре	Refractor				
Lens Clear Aperture	70mm (2.75")				
Focal Length	400mm				
Eyepiece	K6mm, K25mm(1.25"), Dia.31.75mm				
Finder Scope	5x24mm				
Prism	45° Correct Image Prism Diagonal				
Tripod	Adjustable Aluminum Tripod				
Focusing	Rack And Pinion Focusing				
Tube Length	645mm				
Total Wight	17.8kg				
Package	22x11x46cm Color Box, 5 pcs/Carton Size 47x24x57mm, Weight 9.2/8.2Kg				

### T11.5606 Telescope, Refraction, F360, D60



Refraction Telescope Lens Aperture 60mm Focal Length 360mm, Barlow Lens 1.5x Finderscope With 45° Erect Prismr Eyepiece: Dia.31.7 H20mm, H6mm Telescopic Aluminum Tripod With Color Box Packing





T11.5606 Telescope, Refraction, F360, D50					
Туре	Refraction				
Lens Clear Aperture	50mm				
Focal Length	360mm				
Eyepiece	Dia.31.7 H20mm, F6mm				
	Finderscope				
	45° Erect Prism				
Accessories	Barlow Lens 1.5x				
	Telescopic Aluminum Tripod				
	Color Box Packing				

### T11.5607 Telescope, Refraction, F500, D70



Refraction Telescope Lens Aperture 70mm Focal Length 500mm, Barlow Lens 3x Red Point Finderscope With Erect Image Eyepiece: Dia.31.7 H4mm, H20mm, F10mm Telescopic Stainless Steel Tripod Wiht Carrying Bag +Color Box Packing



T11.5607 Observation Effect Real Shot

T11.5607 Telescope, Refraction, F500, D70	
Туре	Refraction
Lens Clear Aperture	70mm
Focal Length	500mm
Eyepiece	Dia.31.7 H4mm, H20mm, F10mm
Accessories	Red Point Finderscope
	Erect Image
	Barlow Lens 3x
	Telescopic Stainless Steel Tripod
	Carrying Bag +Color Box Packing

### T11.5610 Telescope, Refraction, F300, D70

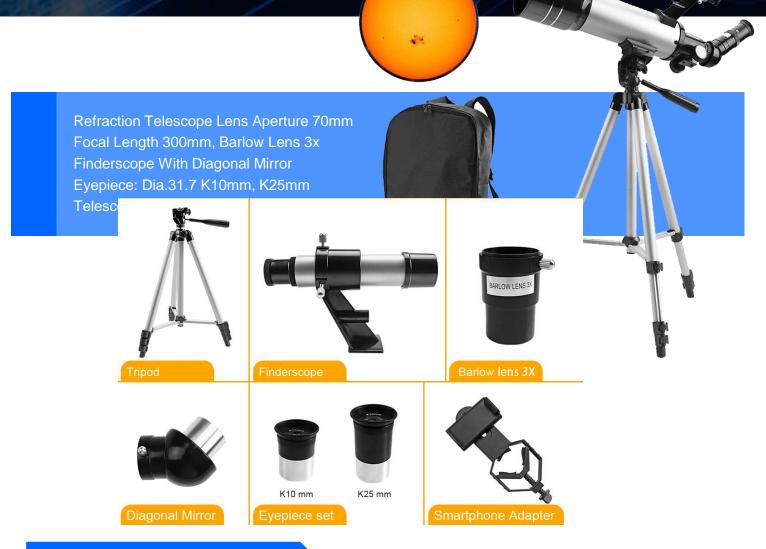




T11.5610 Telescope, Refraction, F300, D70	
Туре	Refraction
Lens Clear Aperture	70mm
Focal Length	300mm
Eyepiece	Dia.31.7 H20mm, H8mm, F12mm
	Finderscope
Accessories	Diagonal Mirror
	Barlow Lens 1.5x, 3x
	Telescopic Aluminum Tripod
	Color Box Packing

### T11.5611 Telescope, Refraction, F400, D70

#### OPTO-EDU



T11.5611 Telescope, Refraction, F400, D70		А	В
Туре	Refraction	•	•
Lens Clear Aperture	70mm	•	•
Focal Length	400mm	•	•
Eyepiece	Dia.31.7 K10mm, K25mm	•	•
	Finderscope	•	•
	Diagonal Mirror	•	•
Accessories	Barlow Lens 3x	•	•
Accessories	Telescopic Aluminum Tripod	•	•
	Knapsack Carrying Bag	•	
	Hand Carrying Bag		•

# A63.7069

OPTO-EDU

Tungsten Filament Scanning Electron Microscope, Std. SEM, 6x~60000x



6x~600000x Tungsten Filament Scanning Electron Microscope, Std. SEM Upgradeable LaB6, X-Ray Detector, EBSD, CL, WDS, Coating Machine And Etc. Multi Modification EBL, STM, AFTM, Heatign Stage, Cryo Stage, Tensile Stage, SEM+Laser And Etc. Auto Calibration, Auto Faulty Detection, Low Cost For Maintain & Repair Easy & Friendly Operation Interface, All Controled By Mouse In Windows System

	A63.7069 T	ungsten Filament Scanning Electron Microscope, Std. SEM
Resolution		3nm@30KV(SE); 6nm@30KV(BSE)
Magnification		Negative Magnification: 6x~300000x; Screen Magnification: 12x~600000x
Electron Gun		Tungsten Heated Cathode-Pre Centered Tungsten Filament Cartridge
Accelerating Vo	Itage	0~30KV
Lens System		Three-level Electromagnetic Lens (Tapered Lens)
Objective Apertu	ure	Molybdenum Aperture Adjustable Outside Vacuum System
Specimen Stage	Э	Five Axes Stage
	X(Auto)	0~80mm
	Y(Auto)	0~60mm
Travel Range	Z(Manual)	0~50mm
	R(Manual)	360°
	T(Manual)	-5°~90°
Max Specimen I	Diameter	175mm
Detector		SE: High Vacuum Secondary Electron Detector (With Detector Protection)
		BSE: Semiconductor Four Segmentation Back Scattering Detector
		CCD
Modification		Stage Upgrade; EBL; STM; AFM; Heating Stage; Cryo Stage; Tensile Stage; Micro-
		nano Manipulator;SEM+Coating Machine;SEM+Laser
Accessories		CCD,LaB6,X-Ray Detector(EDS),EBSD,CL,WDS,Coating Machine
Vacuum System		Turbo Molecular Pumps;Rotation Pump
Electron Beam Current		10pA~0.1µA
PC		Customized Dell Work Station

### A63.7080

Schottky Field Emission Gun Scanning Electron Microscope Std FEG SEM, 15x~500000x



15x~500000x Schottky Field Emission Gun Scanning Electron Microscope
E-Beam Acceleration With Stable Beam Current Supply Excellent Image Under Low Voltage
Non Conduction Sample Can Be Observed Directly No Need To Be Sputtered In Low Voltage
Easy & Friendly Operation Interface, All Controled By Mouse In Windows System
Large Sample Room With Five Axes Eucentric Motorized Stage Large Size, Max Specimen Dia.175mm

A63.7	7080 Schottky	Field Emission Gun Scanning Electron Microscope Pro FEG SEM
Resolution		1.5nm@15KV(SE); 3nm@20KV(BSE)
Magnification		15x~50000x
Electron Gun		Schottky Emission Electron Gun
Electron Beam Current		10pA~0.3µA
Accelerating Voatage		0~30KV
Vacuum System		2 Ion Pumps, Turbo Molecular Pump, Mechanical Pump
		SE: High Vacuum Secondary Electron Detector (With Detector Protection)
Dete	ector	BSE: Semiconductor Four Segmentation Back Scattering Detector
		CCD
Specime	en Stage	Five Axes Eucentric Motorized Stage
	Х	0~80mm
-	Y	0~50mm
Travel Range	Z	0~30mm
	R	360°
	Т	-5°~70°
Max Specim	en Diameter	175mm
Modification		EBL;STM;AFM;Heating Stage;Cryo Stage;Tensile Stage;Micro-nano Manipulator;SEM+Coating Machine;SEM+Laser Etc.
Accessories		X-Ray Detector(EDS), EBSD, CL, WDS, Coating Machine Etc.

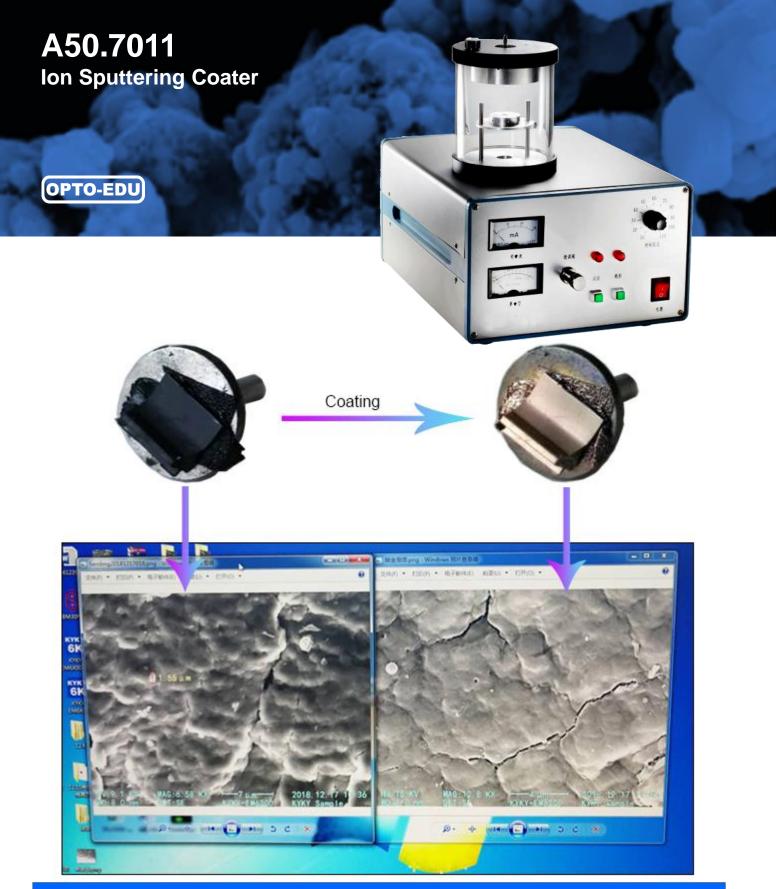
## A63.7081

Schottky Field Emission Gun Scanning Electron Microscope Pro FEG SEM, 15x~800000x



15x~800000x Schottky Field Emission Gun Scanning Electron Microscope E-Beam Acceleration With Stable Beam Current Supply Excellent Image Under Low Voltage Non Conduction Sample Can Be Observed Directly No Need To Be Sputtered In Low Voltage Easy & Friendly Operation Interface, All Controled By Mouse In Windows System Large Sample Room With Five Axes Eucentric Motorized Stage Large Size, Max Specimen Dia.320mm

A63.708	1 Schottky Fie	eld Emission Gun Scanning Electron Microscope Pro FEG SEM
Resolution		1nm@30KV(SE); 3nm@1KV(SE); 2.5nm@30KV(BSE)
Magnification		15x~800000x
Electron Gun		Schottky Emission Electron Gun
Electron Bea	am Current	10pA~0.3µA
Accelerating Voatage		0~30KV
Vacuum	System	2 Ion Pumps, Turbo Molecular Pump, Mechanical Pump
		SE: High Vacuum Secondary Electron Detector (With Detector Protection)
Dete	ctor	BSE: Semiconductor Four Segmentation Back Scattering Detector
		CCD
Specime	n Stage	Five Axes Eucentric Motorized Stage
	X	0~150mm
	Y	0~150mm
Travel Range	Z	0~60mm
	R	360°
	Т	-5°~75°
Max Specime	en Diameter	320mm
Modification		EBL;STM;AFM;Heating Stage;Cryo Stage;Tensile Stage;Micro-nano
		Manipulator;SEM+Coating Machine;SEM+Laser Etc.
Accessories		X-Ray Detector(EDS), EBSD, CL, WDS, Coating Machine Etc.



A50.7011 Ion Sputter Coater		
Vacuum Chamber	Dia 100mm*H130mm	
Specimen Stage	Dia 40mm(Hold 6 Specimen Cups)	
Gold Sputtering Target	Dia 58mm*0.12mm(thickness)	
Vacuum Gauge	Pirani Gage	
Vacuum Pump	Rotation Vane Pums: 2L / s	
Vacuum Protection Point	20Pa With Microscale Inflation Valve	
Working Gas	Argon or air with argon gas special air inlet and gas regulating in microscale	
Sputtering Voltage	1.6KV	
Gross Weight	48kg	
Compliance	CE	

### A50.7042 Ion Sputter Coater & Evaporation Coater

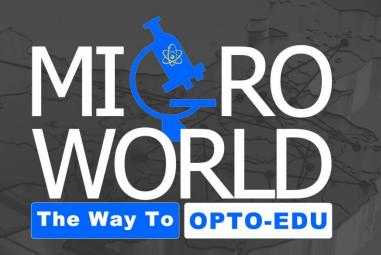


Application 1: Sample preparation for SEM. Deposit Nano film(several nanometers to tens of nanometers ) on non-conductive sample surface in order to make it conductivity, Inhibit the discharge phenomenon caused by charge accumulation, improve the observation effect of SEM. Application 2: Sample preparation of electrode. Deposit tens of nanometers film on non-conductive sample surface and use it as electrode.

ONE

Scope of application: All samples because of no thermal damage.

Parameters	A50.7042
Sputter head:	planar magnetron
Vacuum chamber:	(O.D.)φ125×130mm/ (I.D.) φ108×130mm
Material of chamber:	High silicon boron glass
Sample table size:	φ64mm
Target size:	φ57×0.12mm
Sputter target:	Au、Pt、Ag、Cu、Pd、Au-Pd
Vacuum pump:	Rotary vane pump
Pump speed:	1.1L/s (50Hz)
Sputter current:	5-45mA, minimum step is 1mA
Sputter time:	1-999s, minimum step is 1s
Ultimate pressure:	< 1Pa
Vacuum gauge:	Pirani gauge
Other features:	(1) Built in operation wizard, which means no need for training
	(2) replace sputter target quickly
	(3)very easy to adjust the height of sample plate
	(4)Automatic protection of over current and over vacuum
	(5)Software and hardware interlock to ensure safety
Interface:	5-inch color touch screen
Operation:	Automatic



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